THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Page 1 of 3 APPLICATION NO ATTY. DOCKET NO.

	1744.0140005	09/770.675	
1	FIRST NAMED INVENTOR	····	
	David F. SORRELLS		
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	January 29, 2001	2685	
PATI	ENT DOCUMENTS		

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4	AF65	4,789,837	12/1988	Ridgers			
	AG65	5,634,207	05/1997	Yamaji et al.			
	AH65	5,642,071	06/1997	Sevenhans et al.			
	AI65	6,211,718 B1	04/2001	Souetinov		/	
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	AQ59	Hellwarth, G.A. and Jor and Electroacoustics, V	nes, G.D, "Aut /ol. AU-16, No	omatic Conditioning of Speed 2, pp. 169-179 (June 1968)	ch Signals," <i>IEE</i>	E Transaction	ns on Audio
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ATTY. DOCKET NO. APPLICATION NO. 1744.0140005 09/770,675

FIRST NAMED INVENTOR David F. D

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THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT **FILING DATE ART UNIT** January 29, 2001 2685 **U.S. PATENT DOCUMENTS** DOC. **EXAMINER DOCUMENT NUMBER** DATE NAME CLASS SUB-CLASS FILING DATE REF. INITIAL 04/2001 AA66 6,212,369 B1 Avasarala AB66 6,308,058 B1 10/2001 Souetinov et al. AC66 6,633,194 B2 10/2003 Amborg et al. AD66 2001/0036818 A1 11/2001 Dobrovolny 03/2005 AE66 6,873,836 B1 Sorrells et al. AF66 6,879,817 B1 04/2005 Sorrells et al. AG66 6,057,714 05/2000 Andrys et al. **AH66** 2003/0081781 A1 05/2003 Jensen et al. A166 5,994,689 11/1999 Charrier **FOREIGN PATENT DOCUMENTS EXAMINER** DOC. DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION INITIAL REF. Yes AJ No Yes ΑK No Yes AL No Yes AΜ No OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) EXAMINER INITIAL DOC. CITATION REF. AN AO AP AQ AR

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ATTY. DOCKET NO. 1744.0140005 APPLICATION NO. 09/770,675

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Sorrells et al.

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	AB50	5,633,815	05/1	997	Young					
	AC50	3,246,084	04/1	966	Kryte	er		-		
	AD50	3,702,440	11/1	972	Moore Shinoda et al.					
	AE50	3,767,984	10/1	973						
	AF50	3,852,530	12/1	974	Sher	<u> </u>				
	AG50	4,220,977	09/1	980	Yam	anaka				
	AH50	5,016,242	05/1	991	Tang					
_	AI50	5,937,013	08/1	999	Lam	et al.				<u> </u>
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	AM19 EP 0 632 577 A1 01/1995					EP		-		N/A
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	АР	Razavi, B., ' Digest of Te	'A 900-l chnical	MHz/1.8-Ghz <i>Paper</i> s, IEE	z CMO E, pp.	S Transmitter for Dual 128-131 (1998).	l-Band Applic	cations,"	Symposium	on VLSI Circuits
	AQ	Ritter, G.M., Exhibitions a	"SDA, and Put	A New Solut olishers, pp. 1	ion for 729-73	Transceivers," 16th E 3 (September 8, 1986)	European Mic).	rowave (Conference,	Microwave
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		AC51	6,08	5,073	07/20	000	Pale	mo et al.					
		AD51	6,40	0,963 B1	06/20	002	Glöci	kler et al.			$\Box T$		
		AE51	6,23	0,000 B1	000 B1 05/200		Taylo	De					
		AF51	5,48	3,695	01/19	96	Pard	oen					
		AG51	6,54	2,722 B1	04/20	003	Sorre	ells et al.					
		AH51	6,56	0,301 B1	05/20	003	Cook	et al.		II	<u> </u>		
4		Al51	6,09	8,046	08/20	000	Coor	er et al.					
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1	7_	AJ20	JP 6	0-130203		07/1985		JP				Yes (Doc. AO56)	
		AK20	DE 1	E 196 27 640 A1		01/1997		DE				No	
		AL20	EP 0	0 087 336 A1		08/1983		EP				No	
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		AO	<u>57</u>	Patel, M. et a Jitter," VTC 2	/., "Bar 2002, II	ndpass Sam EEE, pp. 190	pling f 01-190	or Software Radio Re 5 (2002).	ceivers	, and the Effec	t of Oversam	pling on Aperture	
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		AQ	<u>57</u>	English-langu Page (Decem	nglish-language Abstract of Japanese Patent Publication No. 05-327356, 1 from http://www1.ipdl.jpo.go.jp, age (December 10, 1993 - Date of publication of application).								
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FORM PTO-1449 SUPPLEMENTAL INFORMATION DISCL

ATTY. DOCKET NO. 1744.001000C	APPLICATION NO. 09/567,978
APPLICANTS Smith et al.	
FILING DATE	GROUP

May 10, 2000 2685 **U.S. PATENT DOCUMENTS EXAMINER CLASS** FILING DATE **DOCUMENT** DATE NAME SUB-INITIAL NUMBER CLASS AA52 5,564,097 10/1996 Swanke **AB52** 5,898,912 Heck et al. 04/1999 AC52 4,660,164 04/1987 Leibowitz AD52 6,580,902 B1 06/2003 Sorrells et al. Gailus et al. AE52 4,857,928 08/1989 AF52 5,389,839 02/1995 Heck Pace et al. AG52 5,471,665 11/1995 AH52 6,327,313 B1 12/2001 Traylor et al. AI52 5,751,154 05/1998 Tsugai **FOREIGN PATENT DOCUMENTS EXAMINER** SUB-DATE COUNTRY CLASS INITIAL **DOCUMENT NUMBER** TRANSLATION AJ21 EP 0 789 449 A2 & A3 08/1997 EP N/A FR 2 669 787 A1 05/1992 FR No AK21 AL21 GB 2 324 919 A 11/1998 GB N/A AM21 JP 61-30821 02/1986 JP No OTHER (including Author, Title, Date, Pertinent Pages, etc.) Dines, J.A.B., "Smart Pixel Optoelectronic Receiver Based on a Charge Sensitive Amplifier Design," IEEE AN <u>58</u> Journal of Selected Topics in Quantum Electronics, IEEE, Vol. 2, No. 1, pp. 117-120 (April 1996). Simoni, A. et al., "A Digital Camera for Machine Vision," 20th International Conference on Industrial Electronics, AO 58 Control and Instrumentation, IEEE, pp. 879-883 (September 1994). Stewart, R.W. and Pfann, E., "Oversampling and sigma-delta strategies for data conversion," Electronics & AP <u>58</u> Communication Engineering Journal, IEEE, pp. 37-47 (February 1998). Rudell, J.C. et al., "A 1.9-Ghz Wide-Band IF Double Conversion CMOS Receiver for Cordless Telephone AQ <u>58</u> Applications," IEEE Journal of Solid-State Circuits, IEEE, Vol. 32, No. 12, pp. 2071-2088 (December 1997). English-language Abstract of Japanese Patent Publication No. 09-036664, from http://www1.ipdl.jpo.go.jp, 2 AR <u>58</u> Pages (February 7, 1997 - Date of publication of application).

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENTS

ATTY. DOCKET NO. 1744.001000C APPLICATION NO. 09/567,978

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NL	- AA53	5,793,817	08/	1998	Wilson				/
·	AB53	6,225,848 B	05/2	2001	Tilley et al.				<u>/</u>
i	AC53	6,313,685 B1	11/2	2001	Rabii			//	<u> </u>
	AD53	3,614,627	10/1	1971	Runyan et al.				
	AE53	3,940,697	02/1	1976	Morgan				
	AF53	4,016,366	04/1	1977	Kurata				
	AG53	4,045,740	08/1	1977	Baker				
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V	AI53	5,710,992	01/1	1998	Sawada et al.				
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M	AJ22	JP 5-327356		12/1993	JP				
1	AK22	EP 0 643 477	A2 & A3	03/1995	EP				٨
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		AD55	5,416,44		05/19		Joshi							
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\ 	AO	<u>59</u>	English Translat	ion of Germ	nan Patent Publication	No. DE 196 48 9	15 A1, 10 pa	ges.
	АР	<u>59</u>	Deboo, Gordon Inc., pp. 41-45 (ed Circuits and Semico	enductor Devices,	2 nd Edition, l	McGraw-Hill,
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	AC56	6,608,647	08/2003	King		//	
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	AF56	6,031,217	02/2000	Aswell et al.			
	AG56	5,955,992	09/1999	Shattil			
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1	Al56	6,686,879 B2	02/2004	Shattil			
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ATTY. DOCKET NO. APPLICATION NO. 1744.0140005 09/770,675
FIRST NAMED INVENTOR

David SORRELLS

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- Q	AA57	6,704,549 B1	03/2004	Sorrells et al.		/	<u>/</u>
.	AB57	6,704,558 B1	03/2004	Sorrells et al.			
	AC57	5,490,176	02/1996	Peltier	•		
•	AD57	5,970,053	10/1999	Schick et al.		<i>()</i>	
	AE57	6,078,630	06/2000	Prasanna		1	
	AF57	6,600,911 B1	07/2003	Morishige et al.		1	
	AG57	5,179,731	01/1993	Tränkle et al.			
	AH57	5,589,793	12/1996	Kassapian			
	AI57	4,510,467	04/1985	Chang et al.		t.	
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AA58	4,772,853	09/1988	Hart			<u>{</u>
AB58	4,972,436	11/1990	Halim et al.		/ /	
AC58	5,012,245	04/1991	Scott et al.		/	
AD58	5,422,909	06/1995	Love et al.		/	
AE58	5,440,311	08/1995	Gallagher et al.			
AF58	5,926,513	07/1999	Suominen et al.			
AG58	5,995,030	11/1999	Cabler			,
AH58	6,047,026	04/2000	Chao et al.			
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Page 5 of 11 APPLICATION NO. 09/770,675

FIRST NAMED INVENTOR

ATTY. DOCKET NO.

David SORRELLS

SECOND SUPPLEMENTAL FILING DATE **ART UNIT** INFORMATION DISCLOSURE STATEMENT January 29, 2001 2685 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL **DOCUMENT NUMBER** DATE NAME CLASS SUB-CLASS **FILING DATE AA59** 6,076,015 06/2000 Hartley et al. 11/2000 6,144,331 AB59 **Jiang** 6,018,553 01/2000 Sanielevici et al. AC59 AD59 6,317,589 B1 11/2001 Nash AE59 5,058,107 10/1991 Stone et al. AF59 5,757,858 05/1998 Black et al. 6,531,979 B1 03/2003 **AG59** Hynes **AH59** 6,018,262 01/2000 Noro et al. **AI59** 4,761,798 08/1988 Griswold, Jr. et al. FOREIGN PATENT DOCUMENTS EXAMINER INITIAL **DOCUMENT NUMBER** DATE COUNTRY CLASS SUB-CLASS **TRANSLATION** Yes AJ No Yes ΑK No Yes AL No Yes AM No OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) AN AO AΡ AQ AR **EXAMINER** DATE CONSIDERED

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SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Page 6 cf 11 APPLICATION NO. 09/770,675 ATTY. DOCKET NO. 1744.0140005
FIRST NAMED INVENTOR
David SORRELLS

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y L	AA60	5,982,315	11/1999	Bazarjani et al.		/	
. 1	AB60	6,459,721 B1	10/2002	Mochizuki et al.		/	/
1	AC60	6,151,354	11/2000	Abbey		/ /	
•	AD60	6,169,733 B1	01/2001	Lee			
	AE60	6,363,262 B1	03/2002	McNicol		/	
	AF60	6,697,603 B1	02/2004	Lovinggood et al.		/	
	AG60	5,282,222	01/1994	Fattouche et al.			
	AH60	5,949,827	09/1999	DeLuca et al.		1/	
	A160	6,014,176	01/2000	Nayebi et al.		1	
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FIRST NAMED INVENTOR David SORRELLS

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10	AA61	5,678,226	10/1997	Li et al.	00.00	7	1
·	AB61	5,760,632	06/1998	Kawakami et al.		/	/
	AC61	6,160,280	12/2000	Bonn et al.		/ /	1
	AD61	5,481,570	01/1996	Winters			-
	AE61	5,745,846	04/1998	Myer et al.	7		
	AF61	5,345,239	09/1994	Madni et al.	1		
	AG61	4,132,952	01/1979	Hongu et al.		/	
	AH61	5,260,973	11/1993	Watanabe			
J	Al61	6,307,894 B2	10/2001	Eidson et al.		t	
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Page 8 of 11 APPLICATION NO. 09/770,675 ATTY. DOCKET NO. 1744.0140005

FIRST NAMED INVENTOR David SORRELLS
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19	AA62	6,091,289	07/2000	Song et al.			
•	AB62	6,437,639 B1	08/2002	Nguyen et al.			/
	AC62	2002/0037706 A1	03/2002	Ichihara		/ /	
*	AD62	4,441,080	04/1984	Saari		/ /	
	AE62	4,873,492	10/1989	Myer	/		
	AF62	5,697,074	12/1997	Makikallio et al.			
	AG62	5,784,689	07/1998	Kobayashi		1	
	AH62	6,335,656 B1	01/2002	Goldfarb et al.			
	A162	6,690,232 B2	02/2004	Ueno et al.		t	
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y	AA63	5,636,140	06/1997	Lee et al.			
, 1	AB63	6,366,622 B1	04/2002	Brown et al.		/ /	
	AC63	6,600,795 B1	07/2003	Ohta et al.		1	
•	AD63	4,250,458	02/1981	Richmond et al.	7		
	AE63	5,760,629	06/1998	Urabe et al.			
	AF63	6,084,465	07/2000	Dasgupta			
	AG63	6,204,789 B1	03/2001	Nagata			
	AH63	6,064,054	05/2000	Waczynski et al.			
	Al63	5,218,562	06/1993	Basehore et al.		t	
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X	AA64	5,239,496	08/1993	Vancraeynest			
, , , , , , , , , , , , , , , , , , ,	AB64	5,896,304	04/1999	Tiemann et al.			
	AC64	6,005,903	12/1999	Mendelovicz		/	/
	AD64	5,834,979	11/1998	Yatsuka			
	AE64	6,798,351 B1	09/2004	Sorrells et al.		T	
	AF64	6,813,485 B2	11/2004	Sorrells et al.			
	AG64	5,410,270	04/1995	Rybicki et al.			
+	AH64	6,509,777 B2	01/2003	Razavi et al.			
	AI64	5,982,329	11/1999	Pittman et al.		 /	
		F	OREIGN PA	ATENT DOCUMENTS			<u>. </u>
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ATTY. DOCKET NO. APPLICATION NO. 1744.0140005 09/770,675

FIRST NAMED INVENTOR David SORRELLS

David SORRELLS SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT **ART UNIT FILING DATE** January 29, 2001 2685 **U.S. PATENT DOCUMENTS** EXAMINER INITIAL DOCUMENT NUMBER DATE SUB-CLASS FILING DATE NAME CLASS 03/2001 **AA65** 6,208,636 B1 Tawil et al. 10/1971 **AB65** 3,614,630 Rorden 6,836,650 B2 12/2004 Sorrells et al. AC65 AD65 5,844,868 12/1998 Takahashi et al. ΑE AF AG AH ΑI **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION Yes AJ No Yes ΑK No Yes ΑL No Yes AM No OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) ΑN AO ΑP AQ AR

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· · ·	AA1		57,613	10/1	936	Gard	iner	25	0	8	
1	AB1	_	41,078	05/1		Vree		17		15	
	AC1		70,385	01/1		Skilli		17		15	
	AD1		83,575	05/1		Robe		25		6	
	AE1		58,152	09/1		Earp		17		171.5	
	AF1		10,350	10/1		† <u> </u>	n et al.	17		15	-
	AG1		51,430	10/1		Baro		25		8	
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1/	_ AJ1	DE	42 37 692 C1		03/1994		DE	но	4B	1/26	N
	AK1	EP	0 035 166 A1		09/1981		EP	но	4B	1/26	N
	AL1	EP	0 193 899 B1		06/1990		EP	G0	18	7/52	N
	AM1	EP	0 380 351 A2		08/1990		EP	но	3H	17/04	N/
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1	AO	1	Akers, N.P. e 49 (January 1	<i>t al.</i> , "l 986).	RF Sampling	g Gate	s: a Brief Review," <i>IEE I</i>	Proceedings	, IEE, V	/ol. 133, Part	A, No. 1, pp. 45-
	АР	1	Al-Ahmad, H. Techniques fo IEE, pp. 4/1-4	or CEF	RS and T-SA	\Τ," <i>ΕΙ</i>	quency Correction for a actronics Division Colloq	Non-Geosta quium on Lou	tionary w Noise	Communica Oscillators	tions Satellite. and Synthesizers,
	AQ	1	Ali, I. <i>et al.</i> , "D 46, No. 3, pp.	Dopple 309-3	r Characteri 13 (March 1	zation 1998).	for LEO Satellites," <i>IEE</i>	E Transactio	ons on (Communicati	ons, IEEE, Vol.
	ĄŖ	1	Allan, D.W., " Stability, IEEE	Statist	ics of Atomic 221-230 (Fel	c Freq bruary	uency Standards," <i>Proc</i> o 1966).	eedings Of 1	The IEE	E Special Iss	sue on Frequency
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70 -	AA2	2,4	72,798	06/1	949	Fred	endall	178	44		
7	AB2	2,4	97,859	02/1	950	Bou	htwood et al.	250	8		
	AC2	2,4	99,279	02/1	950	Pete	rson	332	41		
1	AD2	2,8	02,208	08/1	957	Hobi	os	343	176		
	AE2	2,9	85,875	05/1	961	Grise	dale et al.	343	100	1	
	AF2	3,0	23,309	02/1	962	Foul	kes	250	17		
	AG2	3,0	69,679	12/1	962	Swe	eney et al.	343	200		
	AH2	3,10	04,393	09/1	963	Voge	elman	343	200		
	Al2	3,1	14,106	12/1	963	McM	anus	325	56		
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1	AJ2	EP	0 380 351 A3		02/1991		EP	Н03Н	17/04	N/A	
	AK2	EP	0 411 840 A2		02/1991		EP	G01R	33/36	N/A	
	AL2	EP	0 411 840 A3		07/1991		EP	G01R	33/36	N/A	
	AM2	EP	0 411 840 B1		10/1995		EP	G01R	33/36	N/A	
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V	AN	2	SC-13, No. 6,	, pp. 8	06-814 (Dec	ember "Tech	pacitor Ladder Filters," 1978). nological Design Cons IEEE, IEEE, Vol. 71, N	iderations for Monoli	thic MOS Sw	vitched-Canacitor	
	AP 2 Alouini, M. et al., "Channel Characterization and Modeling for Ka-Band Very Small Aperture Terminals," Proceedings Of the IEEE, IEEE, Vol. 85, No. 6, pp. 981-997 (June 1997).										
	Andreyev, G.A. and Ogarev, S.A., "Phase Distortions of Keyed Millimeter-Wave Signals in the Case of Propagation in a Turbulent Atmosphere," <i>Telecommunications and Radio Engineering</i> , Scripta Technica, Vol. 43, No. 12, pp. 87-90 (December 1988).										
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Antonetti, A. et al., "Optoelectronic Sampling in the Picosecond Range," Optics Communications, North-Holland

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Publishing Company, Vol. 21, No. 2, pp. 211-214 (May 1977).

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FORM PTC-1449 MAR O 1 2000 INFORMATION DISCLOSURE STREEMENT

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APPLICATION NO. 09/770,675

APPLICANT Sorrells et al.

FILING DATE January 29, 2001

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7	- AA3	3,11	18,117	01/1	964	King	et al.	332	22	
	AB3	3,22	26,643	12/1	965	McN	air	325	40	
}	AC3	3,25	58,694	06/1	966	Sher	pherd	325	145	
	AD3	3,38	33,598	05/1	968	Sand	iers	325	163	
	AE3	3,38	34,822	05/1	968	Miya	gi	325	30	
	AF3	3,45	54,718	07/19	969	Pem	eault	178	66	
	AG3	3,52	23,291	08/1	970	Piem	et	340	347	
	АНЗ	3,54	18,342	12/19	970	Max	<u>э</u> у	332	9	
	AI3	3,55	5,428	01/19	971	Perre	eault	325	320	
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`_	AJ3	EP	0 423 718 A2		04/1991		EP	H04N	7/01	N/A
*	АКЗ	EP (0 423 718 A3	•	08/1992		EP	H04N	7/01	N/A
	AL3	EP	0 486 095 A1		05/1992		EP	H03D	3/00	N/A
	АМЗ	EP (0 486 095 B1		02/1997		EP	H03D	3/00	N/A
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12	AN	3					f the Telecommunication rowave Exhibitions and			
	AO	<u>3</u>	Auston, D.H., Institute of Ph	"Pico: iysics,	second opto Vol. 26, No.	electro 3, pp	nic switching and gating 101-103 (February 1, 1	g in silicon," <i>Applie</i> 1975).	d Physics Let	tters, American
	AP	<u>3</u>					tched-Capacitor and Warns Society, Vol. CAS-3			
	AQ	<u>3</u>	Baines, R., "T (May 1995).	he DS	SP Bottlened	k," <i>IEE</i>	E Communications Mag	gazine, IEEE Comr	nunications S	ociety, pp. 46-54
	AR	3	Banjo, O.P. a Electronics Le	nd Vila	ar, E., "Binar IEE, Vol. 21	y Erroi , No. 7	r Probabilities on Earth- 7, pp. 296-297 (March 28	Space Links Subje 8, 1985).	ct to Scintillat	ion Fading,"
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APPLICATION NO. 09/770,675

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1	AA4	3,6	17,892	11/19	971	Haw	ey et al.	325	145	1
Υ	AB4	3,62	21,402	11/19	971	Gard	ner	328	37	
	AC4		23,160	11/19	971	Giles	et al.	340	347 DA	
	AD4		26,417	12/19		Gilbe		343	203	
	AE4		29,696	12/19		Barte		324	57 R	-
	AF4		62,268	05/19			s et al.	325	56	
	AG4 AH4		89,841 14,577	09/19			et al.	325	39	-
	Al4		17,844	02/19		Haye	et e <i>t al.</i>	325 340	145 5 R	
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ih	AJ4	EP	0 512 748 A2		11/1992	***	EP	H04N	9/64	N/A
	AK4	EP	0 512 748 A3		07/1993		EP	H04N	9/64	N/A
	AL4	EP (0 512 748 B1		11/1998		EP	H04N	9/64	N/A
	AM4	EP	0 548 542 A1		06/1993		EP	H03B	19/14	N/A
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	ΑŅ	4	Banjo, O.P. a	nd Vila Fifth I	ar, E., "The D nternational	Depend Confe	dence of Slant Path Ampli rence on Antennas and Pr	tude Scintillati	ions on Various AP 87) Part 2: I	Meteorological Propagation, IEE,
	AO	4	Paths and Im	pact of	n Communic	ation S	nt and Modeling of Amplitu Systems," <i>IEEE Transactio</i> 780 (August 1986).	ude Scintillations on Comm	ons on Low-Elev unications, IEEE	ation Earth-Space Communications
	AP	4	Banjo, O.P. el Fourth Interna	t al., "T ational	Fropospheric Conference	: Ampl on An	itude Spectra Due to Abso tennas and Propagation (I	orption and Sci CAP 85), IEE	attering in Earth , pp. 77-82 (Apr	n-Space Paths," il 16-19, 1985).
	AQ	<u>4</u>	Basili,P. et al. and Propagati	, "Cas ion, IE	e Study of In EE, Vol. 38,	ntense No. 1,	Scintillation Events on the pp. 107-113 (January 199	o OTS Path," / 90).	EEE Transactio	ns on Antennas
	AR	<u>4</u>	Basili, P. et al Letters, IEE, \	., "Obs /ol. 24	servation of I	High C	² and Turbulent Path Leng 1116 (August 18, 1988).	gth on OTS Sp	pace-Earth Link,	" Electronics
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. ::OOMA'MOHOOMA\CKGF_DC1,97351;1

FORM PTO-1449 INFORMATION DISCLOSURE

ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

APPLICANT Sorrells et al.

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1		AA5	3,73	35,048	05/19	973	Tom	sa et al.		179	15 BM	
1		AB5	3,80	06,811	04/19	974	Thor	npson		325	146	
	- -	AC5	3,86	68,601	02/19	975	Mac	Afee		332	45	
		AD5	3,94	49,300	04/19	976	Sadi	er		325	31	
		AE5	3,96	67,202	06/19	976	Batz			325	31	
		AF5	3,98	30,945	09/19	976	Bick	ord		325	30	
		AG5	3,98	37,280	10/19	976	Baue	er		235	150.53	
_		AH5	3,99	91,277	11/19	976	Hirat	а		179	15 FD	
		Al5	4,00	03,002	01/19	977	Snijd	ers et al.		332	10	
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9		AJ5	EP (0 632 288 A2		01/1995		EP		G01S	13/75	N/A
γ,		AK5	EP (0 632 288 A3		07/1996		EP		G01S	13/75	N/A
		AL5 EP 0 696 854 A1 02/1996 EP H04B 1/26 N/A										
	_	AM5	EP (0 782 275 A2		07/1997		EP		H04B	7/02	N/A
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h		AN	<u>5</u>	Blakey, J.R. e Region," <i>Elec</i>	et al., " tronics	Measureme Letters, IEE	nt of A E, Vol.	tmospheric Millimetre-V 21, No. 11, pp. 486-48	Wave P 7 (May	hase Scintilla 23, 1985).	ations in an A	Absorption
4		AO	<u>5</u>	Burgueño, A. communicatio (September/C	ns," a	nnales des t	f rain g èlècor	pauge integration time on time on time on the communications, Internations	on the re	ain rate statis ion of Radio	stics used in Science, pp.	microwave 522-527
		AP .	5	Application to	Micro	wave Comm	unicat	Statistical Analysis of D Jons," <i>Fifth Internationa</i> 201 (March 30 - April 2,	al Confe	rence on Ani	of Rainfall lennes end F	Rate with Propagation (ICAP
		AQ	<u>5</u>	Burgueño, A. Communicatio IEE, pp. 297-3	ons," S	Sixth Internat	ional (ics of Precipitation Rat Conference on Antenna	e Retur	n Periods in Propagation (the Context (ICAP 89) Pa	of Microwave of 2: Propagation,
		AR	5	Burgueño, A. Transactions (1990).	et al., on Coi	"Spectral An	alysis s, IEE	of 49 Years of Rainfall E Communications Soc	Rate a	nd Relation to	o Fade Dyna pp. 1359-13	mics," <i>IEEE</i> 66 (September
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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

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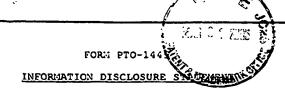
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4/4	AA6	+	13,966	03/19	977	Cam	pbell	32	5	363	+		
	AB6		19,140	04/19			rdlow	32		65			
1	AC6		35,732	07/19	977	Lohr	mann	32		446	1		
	AD6		17,121	09/19	977	Cam	pbell	33		76	† 		
	AE6		6,841	01/19	978	You		17		66 R			
	AF6	4.06	6,919	01/19	978	î —	ington	30		353	<u> </u>		
	AG6		31,748	03/19		Batz		32		56			
	AH6		0,765	12/19			elian <i>et al</i> .	30		220 R			
	Al6		0,806	12/19		-	Gerwen et al.	32		487			
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.1	AJ6												
P	AK6	EP (0 795 978 A2		09/1997		EP	но	4L	5/06	N/A		
	AL6	EP (0 837 565 A1		04/1998		EP	но	4B	1/69	N/A		
	AM6	EP (0 862 274 A1		09/1998		EP	но	зм	1/06	N/A		
			OTHE	R (Inc	luding Auti	hor. T	tle, Date, Pertinent Pa	nes etc)					
	AN	<u>6</u>	Catalan, C. an No. 12, pp. 12	nd Vila 138-12	ır, E., "Appro 40 (June 11	pach fo , 1998	or satellite slant path ren).	note sensin	g," <i>Elec</i>	tronics Letter	s, IEE, Vol. 34,		
P C	AO	<u>6</u>	Chan, P. et al. Conference, II	., "A H EEE C	lighly Linear Communicati	1-GH on So	z CMOS Downconversioniciety, pp. 210-213 (Sept	on Mixer," <i>E</i> ember 22-2	<i>uropeai</i> 4, 1993	n Solid State).	Circuits		
	AP	Copy of Declaration of Michael J. Bultman filed in patent application Ser. No. 09/176,022, which is directed to related subject matter, 2 pages.											
	AQ	<u>6</u>	Copy of Decla related subject	ration t matte	of Robert W er, 2 pages.	/. Coo	k filed in patent applicati	ion Ser. No.	09/176	,022, which is	s directed to		
	AR	<u>6</u>	Copy of Declar	ration , 3 pa	of Alex Holt ges.	z filed	in patent application Se	r. No. 09/17	6,022, 1	which is direc	ited to related		

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ATTY, DOCKET NO. 1744.0140005 APPLICATION NO. 09/770,675

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Sorrells et al.

FILING DATE January 29, 2001

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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	IE .		CLASS	SUB- CLASS	FILING DATE
1	AA7	4,14	12,155	02/1	979	Ada	;hi		325	47	
K	AB7	4,17	70,764	10/1	979	Saiz	et al.		332	17	
	AC7	4,20	04,171	05/1	980	Sutp	hin, Jr.		328	167	
	AD7	4,21	10,872	07/19	980	Greg	orian		330	9	
	AE7	4,24	15,355	01/19	981	Pasc	coe et al.		455	326	
	AF7	4,25	53,066	02/19	981	Fish	er et al.		329	50	
	AG7	4,25	3,069	02/19	981	Noss	ek		330	107	<u> </u>
	AH7	4,30	8,614	12/19	981	Fish	er et al.		370	119	
	AI7	4,32	20,361	03/19	982	Kikk	ert		332	16 R	<u> </u>
					FOREIGN		ENT DOCUMENTS				
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	AJ7	EP	0 874 499 A2		10/1998		EP		H04L	CLASS 25/06	N/A
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<u> </u>	AK7	FR:	2 743 231 A1		07/1997		FR		H04B	7/12	No
	AL7	GB:	2 161 344 A		01/1986		GB		H04B	7/12	N/A
	AM7	GB:	2 215 945 A		09/1989		GB		H04L	27/00	N/A
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	AN	7	Copy of Deck related subject	aration of matt	of Richard (er, 2 pages.	C. Loo	ke filed in patent applica	ition Ser	. No. 09/17	6,022, which	is directed to
	AO	7	Copy of Decla related subject	ıration t matt	of Charley [er, 2 pages.	D. Mos	es, Jr. filed in patent app	plication	Ser. No. 0	9/176,022, w	hich is directed to
	AP	AP Copy of Declaration of Jeffrey L. Parker and David F. Sorrells, with attachment Exhibit 1, filed in patent application Ser. No. 09/176,022, which is directed to related subject matter, 130 pages.									
	AQ	7	Dewey, R.J. a	ind Co Radios	llier, C.J., "N s, IEE, pp. 3/	1ulti-M 11-3/5	ode Radio Receiver," <i>Eli</i> (October 18, 1985).	ectronic	s Division (Colloquium oi	n Digitally
	AR DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-276351, 1 page (November 13, 1990 - Date of publication of application).										
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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

APPLICANT Sorrells et al.

FILING DATE January 29, 2001 GROUP 2683

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EXAMINER INITIAL		DOCUMENT NUMBER	DAT	E	NAM	IE	CLA	ss	SUB- CLASS	FILING DATE
1	AA8	4,320,536	03/1	982	Dietr	ich	455		325	
10	AB8	4,346,477	08/1	982	Gord	ly	455		257	
	AC8	4,355,401	10/1	982	Ikom	a et al.	375		5	
	AD8	4,356,558	10/1	982	Owe	n et al.	364		724	
	AE8	4,360,867	11/1	982	Gond	da	363		158	
	AF8	4,363,132	12/1	982	Colli	n	455		52	
	AG8	4,365,217	12/1	982	Berg	er et al.	333		165	
	AH8	4,370,572	01/1	983	Cosa	and et al.	307		353	
	AI8	4,389,579	06/1	983	Steir	1	307		353	
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EXAMINER NITIAL		DOCUMENT NU	MBER	DATE		COUNTRY	CLA		SUB- CLASS	TRANSLATIO
11	AJ8	JP 2-39632		02/1990		JP	H04	В	7/12	
h	AK8	JP 2-131629		05/1990		JP	H04	В	7/12	
	AL8	JP 2-276351		11/1990		JP	H04	L	27/22	
	AM8	WO 80/01633 A	<u> </u>	08/1980		РСТ	H04	J	1/08	1
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P	AN	publication	of applic	cation).		nguage Patent Abstract fo		· ·		
	AP	B DIALOG F publication B DIALOG F	ile 348 (I	European Pa	itents)	English Language Paten	it Abstract fo	r EP 0 7	85 635 A1,	3 pages
	AQ	o DIALOG F	le 348 (l		itents)	tion of application). English Language Paten cation).	t Abstract fo	r EP 351	l66 A1, 2 p	ages (February
	AR	8 "DSO take 77 and 79	s sampli (March 1	ng rate to 1 (1987).	Ghz," <i>l</i>	Electronic Engineering, N	lorgan Gram	plan Pul	blishers, Vo	ol. 59, No. 723, (
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ATTY. DOCKET NO. 1744.0140005 APPLICATION NO. 09/770,675

APPLICANT Sorrells et al.

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- 1.	AA9	4,39	2,255	07/19	983	Del 0	Giudice		455	328		
V	AB9	4,43	0,629	02/19	984	Betz	l et al.		333	165		
1	AC9	4,44	6,438	05/19	984	Char	ng et al.		328	127		
	AD9	4,45	6,990	06/19	984	Fish	er et al.		370	119		
	AE9	4,47	2,785	09/19	984	Kası	ıga		364	718		
	AF9	4,47	9,226	10/19	984	Prab	hu <i>et al.</i>		375	1		
	AG9	4,48	1,490	11/19	984	Hunt	ley		332	41		
	AH9	4,48	1,642	11/19	984	Hans	son		375	9		
ر ا	Al9	4,48	5,488	11/19	984	Houd	lart		455	327		
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	AJ9	wo	94/05087 A1		03/1994		PCT		нозм	1/00	N//	
Υ	AK9	wo	96/02977 A1		02/1996		PCT		H04B	1/26	N//	
	AL9	wo	96/08078 A1		03/1996		PCT		H03D	3/00	N/A	
L	AM9	wo	96/39750 A1		12/1996	-	PCT		H04B	1/26	N//	
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مار	AN	9					ision FET-Less Sample- rcuits, IEEE, Vol. SC-13					
Γ -	AO	<u>9</u>		EEE 1			nonic Sampling for the N strumentation and Measo					
	AP	Faulkner, N.D. et al., "Sub-Harmonic Sampling for the Accurate Measurement of Frequency Stability of Microwave Oscillators," CPEM 82 Digest: Conference on Precision Electromagnetic Measurements, IEEE, pp. M-10 and M-11 (1982).										
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FORM PTO-149 200 3 9 200 8 INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.0140005 09/770,675 APPLICANT

Sorrells et al.

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14	AA10	4,50	04,803	03/1	985	Lee	et al.	333	2	31 R		
	AB10	4,5	17,519	05/1	985	Muk	aiyama	329	•	126		
	AC10	4,5	17,520	05/1	985	Oga	wa	329	•	145		
	AD10	4,5	18,935	05/1	985	van I	Roermund	333	3	173		
	AE10	4,52	21,892	06/1	985	Vano	œ et al.	379	5	88		
	AF10	4,56	3,773	07/19	986	Dixo	n, Jr. et al.	45	5	327		
	AG10	4,57	77,157	03/1	986	Reed	1	329)	50		
	AH10	4,58	33,239	04/1	986	Vano	×e	375	5	94		
	Al10	4,59	91,736	05/1	986	Hirac	et al.	307		267		
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ساي	AJ10	wo	97/38490 A1		10/1997		PCT	Н0:	3K	7/00	N/A	
7	AK10	wo	98/00953 A1	_	01/1998		PCT	HO	\$L	27/26	N/A	
}	AL10	wo	98/24201 A1	V24201 A1 06			PCT	Н04	\$H	1/00	N/A	
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	AN	<u>10</u>	Fukahori, K., IEEE, Vol. SC	"A CM :-19, N	IOS Narrow-l No. 6, pp. 926	Band \$ 5-932 (Signaling Filter with Q Rec (December 1984).	duction," /E	EEE Jou	ımal of Solid-	State Circuits,	
1	AO	<u>10</u>	Fukuchi, H. a. Microwaves, /	nd Ots A <i>nteni</i>	su, Y., "Availa nas and <i>Prop</i>	able tir Pagatio	ne statistics of rain attenu n, IEE, Vol. 135, Pt. H, No	ation on ea o. 6, pp. 38	arth-spa 37-390 (ice path," <i>IEE</i> December 19	E <i>Proceedings-H:</i> 988).	
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	AQ	<u>10</u>	Gilchrist, B. <i>et al.</i> , "Sampling hikes performance of frequency synthesizers," <i>Microwaves & RF</i> , Hayden Publishing, Vol. 23, No. 1, pp. 93-94 and 110 (January 1984).									
	AR 10 Gossard, E.E., "Clear weather meteorological effects on propagation at frequencies above 1 Ghz," Radio Science, American Geophysical Union, Vol. 16, No. 5, pp. 589-608 (September - October 1981).											

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ATTY. DOCKET NO. 1744.0140005

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ان	AA11	4,60	2,220	07/19	986	Kurit	ara	331	19				
40	AB11	4,60	008,80	07/19	986	Well	es, II <i>et al</i> .	329	50				
	AC11	4,61	12,464	09/19	986	Ishik	awa et al.	307	496				
	AD11	4,61	12,518	09/19	986	Gans	et al.	332	21				
	AE11	4,61	16,191	10/19	986	Gala	ni <i>et al.</i>	331	4				
	AF11	4,62	21,217	11/19	986	Saxe	et al.	315	1				
	AG11	4,62	28,517	12/19	986	Schv	varz et al.	375	40				
	AH11	4,63	14,998	01/19	987	Craw	ford	331	1 A				
	Al11	4,64	18,021	03/19	987	Albei	krack	363	157				
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EXAMINER INITIAL	INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION												
	AJ11	EP	0 560 228 A1		09/1993		EP	H03D	7/12	N/A			
Y	AK11	FR:	2 245 130		04/1975		FR	H03K	5/13	Yes (See AP50)			
	AL11												
	AM11	EP (0 732 803 A1		09/1996		EP	H03D	3/00	Yes (See AN51)			
			OTHE	R (Inc	cluding Aut	hor, T	tle, Date, Pertinent Page	s, etc.)					
	OTHER (Including Author, Title, Date, Pertinent Pages, etc.) AN 11 Gregorian, R. et al., "Switched-Capacitor Circuit Design," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. 941-966 (August 1983).												
	AO	11	Grashong et 67-68, 70, 73	al., "Ui -75 an	ndersamplin d 78 (May 2	g Tech 3, 199	iniques Simplify Digital Rad 1).	dio," <i>Electronic L</i>	<i>Pesign</i> , Pento	n Publishing, pp.			
	AP Grove, W.M., "Sampling for Oscilloscopes and Other RF Systems: Dc through X-Band," IEEE Transactions on Microwave Theory and Techniques, IEEE, pp. 629-635 (December 1966).												
	AQ 11 Haddon, J. et al., "Measurement of Microwave Scintillations on a Satellite Down-Link at X-Band," Antennas and Propagation, IEE, pp. 113-117 (1981).												
AR 11 Haddon, J. and Vilar, E., "Scattering Induced Microwave Scintillations from Clear Air and Rain on Earth Space Paths and the Influence of Antenna Aperture," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE, Vol. AP-34, No. 5, pp. 646-657 (May 1986).													
EXAMINER				7	$\overline{}$			DATE CONS	SIDERED	a/0/N			

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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ATTY. DOCKET NO. 1744.0140005 APPLICATION NO. 09/770,675

APPLICANT Sorrells et al.

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	AA12	4,65	1,034	03/19	987	Sato		307	556				
	AB12	4,67	'5,882	06/19	987	Lillie	et al.	375	80				
	AC12	4,68	18,253	08/19	987	Gum	m	381	7				
	AD12	4,71	6,376	12/19	987	Daud	telin	329	107				
	AE12	4,71	6,388	12/1	987	Ja∞	bs	333	173				
	AF12	4,71	8,113	01/19	988	Roth	er et al.	455	209				
	AG12	4,72	6,041	02/19	988	Proh	aska <i>et al</i> .	375	91				
	AH12	4,73	3,403	03/19	988	Simo	ne	375	103				
V	Al12	4,73	4,591	03/19	988	Ichite	subo	307	219.1				
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	AJ12	DE 1	197 35 798 C1		07/1998		DE	H04L	27/00	Yes (See AP51)			
F	AK12	wo	98/40968 A2&	A3	09/1998		PCT	HO3L	7/08	N/A			
	AL12 EP 0 529 836 A1 03/1993 EP H03L 7/089 N/A												
	AM12	EP (795 955 A2&A	1 3	09/1997		EP	H03D	13/00	N/A			
			OTHE	R (Inc	cluding Auti	nor, Ti	tle, Date, Pertinent Page	s, etc.)					
	AN	<u>12</u>	Hafdallah, H. 4, 1988).	et al.,	"2-4 Ghz ME	SFET	Sampler," <i>Electronics Let</i>	ters, IEE, Vol. 24	4, No. 3, pp. [.]	151-153 (February			
Υ 	AO	<u>12</u>	Herben, M.H. Electronics Lo	A.J., ". etters,	Amplitude ar IEE, Vol. 18	nd Pha , No. 7	ise Scintillation Measurem 7, pp. 287-289 (April 1, 198	ents on 8-2 km L 12).	ine-Of-Sight	Path at 30 Ghz,"			
	АР	<u>12</u>	Hewitt, A. et a for Telecomm	al., "Ar nunical	n 18 Ghz Wid ion Transmis	leband Ssion S	I LOS Multipath Experimen Systems - MTTS 85, IEE, p	nt," <i>International</i> pp. 112-116 (Nov	Conference (ember 27-28	on Measurements , 1985)			
	AQ	<u>12</u>	Hewitt, A. et a Measurement 1136-1143 (N	ts," <i>IEI</i>	EE Transacti	sive A ons o	pproach to the Identification Communications, IEEE C	n of Multipath Ra communications	ay Parameter Society, Vol.	s from Field 37, No. 11, pp.			
	Hewitt, A. and Vilar, E., "Selective fading on LOS Microwave Links: Classical and Spread-Spectrum Measurement Techniques," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 36, No. 7, pp. 789-796 (July 1988).												
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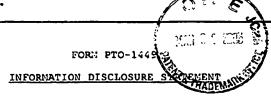
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~	AA13	4,73	7,969	04/19	988	Stee	et al.		375	67		
P	AB13	4,74	3,858	05/19	988	Ever	ard		330	10		
	AC13	4,74	5,463	05/19	988	Lu			358	23	<u> </u>	
	AD13	4,75	1,468	06/19	88	Agos	ton		328	133	.	
	AE13	4,75	7,538	07/19	88	Zink			381	7		
	AF13	4,76	8,187	08/19	88	Mars	hall		370	69.1		
	AG13	4,76	9,612	09/19	88	Tama	akoshi et al.		328	167		
	AH13	4,78	5,463	11/19	88	Janc	et al.		375	1	<u> </u>	
	A113	4,79	1,584	12/19	88	Greiv	enkamp, Jr.		364	525		
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EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION	
	AJ13	EP (817 369 A2&	43	01/1998		EP		H03D	7/00	N/A	
4	AK13 WO 91/18445 A1 11/1991 PCT H03D 7/18 N/A											
<i></i>	AL13 WO 99/23755 A1 05/1999 PCT H03D 7/16 N/A											
	AM13	JP 5	6-114451		09/1981		JP		H04B	7/02	No	
		-	ОТНЕ	ER (Inc	cluding Aut	hor, T	itle, Date, Pertinent Pa	ages, e	tc.)			
M	AN	<u>13</u>	Hospitalier, E Vol. VII, pp. 2			Recor	ding and Observing Ra	pidly V	arying Phen	omena," <i>Scie</i>	nce Abstracts, IEE,	
1	AO	<u>13</u>	Howard, I.M. Detection," To Australia, pp.	he Insi	titution of En	gineer	emodulating High Freq 's <i>Australia Vibration ar</i> -20, 1990).	uency F ad Nois	Resonance S e Conferenc	Signals for Bea	aring Fault of Engineers,	
	Hu, X., A Switched-Current Sample-and-Hold Amplifier for FM Demodulation, Thesis for Master of Applied Science, Dept. of Electrical and Computer Engineering, University of Toronto, UMI Dissertation Services, pp. 1-64 (1995).											
	AQ 13 Hung, H-L. A. et al., "Characterization of Microwave Integrated Circuits Using An Optical Phase-Locking and Sampling System," IEEE MTT-S Digest, IEEE, pp. 507-510 (1991).											
	Hurst, P.J., "Shifting the Frequency Response of Switched-Capacitor Filters by Nonuniform Sampling," IEEE AR 13 Transactions on Circuits and Systems, IEEE Circuits and Systems Society, Vol. 38, No. 1, pp. 12-19 (January 1991).											
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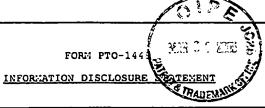
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. Ju	- AA14	4,80	1,823	989	Yokoyama		307	353				
	AB14	4,80	6,790	989	Sone		307	353				
	AC14	4,81	0,904	089 Crawford		307	353					
	AD14	1 1 1			03/1989		Cowley et al. Yester, Jr. et al.		117 R			
	AE14								75			
	AF14	4,81	4,819,252		989	Chris	topher	375	122			
	AG14	4,83	3,445	05/19	989	Buch	ele	341	118			
	AH14			08/19	989	Hochschild et al.		333	173			
	Al14			09/1989		Juri et al.		358	133	<u> </u>		
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EXAMINER INITIAL		DOCUMENT NU			DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION		
	AJ14	JP 8	3-32556		02/1996		JP	H04L	1/04	No		
· · · · · · · · · · · · · · · · · · ·	AK14	JP 8-139524			05/1996		JP	H03D	7/00	No		
	AL14	JP 59-144249			08/1984		JP	H04L	27/00	No		
٦	AM14	JP 6	3-54002		03/1988	JP JP		H03B	19/114	No		
			OTHE	R (Inc	cluding Auti	nor, Ti	tle, Date, Pertinent Pages	s, etc.)	-4			
M	AN	14	Itakura, T., "E IEE Proceedii	iffects ngs Ci	of the samp ircuits, Devic	ling pu es and	lse width on the frequency of Systems, IEE, Vol. 141, N	characteristics (lo. 4, pp. 328-33	of a sample-a 36 (August 19	ind-hold circuit," 194).		
	AO	Janssen, J.M.L., "An Experimental 'Stroboscopic' Oscilloscope for Frequencies up to about 50 Mc/s: I. Fundamentals," <i>Philips Technical Review</i> , Philips Research Laboratories, Vol. 12, No. 2, pp. 52-59 (August 1950).										
	AP	14	Janssen, J.M.L. and Michels, A.J., "An Experimental 'Stroboscopic' Oscilloscope for Frequencies up to about 50 Mc/s: II. Electrical Build-Up," <i>Philips Technical Review</i> , Philips Research Laboratories, Vol. 12, No. 3, pp. 73-82 (September 1950).									
	ΑQ	<u>14</u>	Jondral, V.F. June 1996).	et al.,	"Doppler Pro	files fo	or Communication Satellites	s," <i>Fr</i> equenz, He	erausberger, (рр. 111-116 (Мау-		
	AR	14	Kaleh, G.K., " Interference,"	A Fred 1995	quency Diver IEEE Glober	sity S _l com, IE	pread Spectrum System for EEE Communications Socie	Communication ety, pp. 66-70 (1	n in the Prese 995).	nce of In-band		
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EXAMINER INITIAL	ER DOCUMENT NUMBER		DAT	DATE		NAME		CLASS	SUB- CLASS	FILING DATE
Lu	AA15	4,870,659	09/1	989	Oish	Oishi et al.		5	82	
Υ	AB15	4,871,987	10/1	989	Kawase		33:	332	100	
	AC15 4,885,587 AD15 4,885,756		12/1	989	Wiegand et al. Fontanes et al.		42	42 375	14 82	
			12/1	989			37			
	AE15	4,888,557	12/1	989	Puckette, IV et al.		32	329	341 80	
	AF15	AF15 4,890,302 AG15 4,893,316		989	Muih	vijk	375	5		
	AG15			90	Janc et al.		37	5	44	
	AH15	4,893,341	01/1	990	Gehring		38	1	7	
	Al15	4,894,766	01/1	01/1990		De Agro		363	159	
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,1	AJ15	AJ15 JP 6-237276		08/1994		JP		H04L	27/20	N
Y	AK15	JP 8-23359		01/1996	JP		но	H04L	27/20	N
	AL15	JP 47-2314	02/1972		JP	-			Ye (Doc. AP53	
	AM15	JP 58-7903		01/1983	JP		но	3C	1/02	Partia (Doc. AQ50
		ОТ	HER (In	cluding Aut	hor, T	tie, Date, Pertinent Pag	es. etc.)			· · · · · · · · · · · · · · · · · · ·
	AN	Karasawa, 15 Transactio 1614 (Nove	ns on An	tennas and l	dictior Propag	n Method for Tropospheri gation, IEEE Antennas ar	c Scintillation od Propaga	on on Ea tion Soc	arth-Space F iety, Vol. 36	Paths," <i>IEEE</i> , No. 11, pp. 1608
Y	AO	15 Kirsten, J. Cahners P	and Flen ublishing	ning, J., "Und J., Vol. 35, No	dersan o. 13, p	npling reduces data-acqu p. 217-222, 224, 226-22	isition cost 8 (June 21,	s for sele 1990).	ect applicati	ons," <i>EDN</i> ,
	АР	Lam, W.K. et al., "Measurement of the Phase Noise Characteristics of an Unlocked Communications Channe Identifier," <i>Proceedings Of the 1993 IEEE International Frequency Control Symposium</i> , IEEE, pp. 283-288 (July 2-4, 1993).								
	AQ	Lam, W.K. et al., "Wideband sounding of 11.6 Ghz transhorizon channel," Electronics Letters, IEE, Vol. 30, N 9, pp. 738-739 (April 28, 1994).								
	AR	15 Larkin, K.G	., "Efficion (Janua	ent demodule ry 18, 1996).	ator fo	bandpass sampled AM	signals," <i>El</i>	ectronic	s Letters, IE	E, Vol. 32, No. 2
EXAMINER	<u> </u>			7			DATE	CONSI	IDERED	1/2/05

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EXAMINER INITIAL		DOCUMENT NUMBER		DATE		NAME		Cl	ASS	SUB- CLASS	FILING DATE
-lv	AA16	AA16 4,896,152			01/1990		Tiemann		0	853	
l,	AB16	6 4,902,979 02/1			990 Puck		uckette, IV		9	343	
<u> </u>	AC16 4,908,579 AD16 4,910,752		8,579	03/19	990	Tawfik et al. Yester, Jr. et al.		32	328 375	167 75	
			0,752	03/19	990			37			
	AE16 4,914,405			04/19	990	Wells		33	331	25	
	AF16			04/19	990	Senderowicz et al.		36	364	825	
	AG16	4,99	2,452	05/19	990 -	Lars	sen et al.		365	45	
	AH16	4,93	1,921	06/19	990	Ande	erson	363	163		
<u> </u>	Al16	4,944,025		07/1990		Gehring et al.		45	5	207	
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	AJ16		8-133004		08/1983		JP	но	3D	1/00	N
Y	AK16	AK16 JP 60-58705		7	04/1985		JP	но	3D	7/00	No
]	AL16	JP 4-123614			04/1992		JP	Ho	3K	19/0175	No
	AM16	JP 4	-127601		04/1992	JP		но	3D	7/00	No
	• •	<u> </u>	OTHE	R (Inc	Judina Auf	hor. T	itie, Date, Pertinent Pag	ies. etc.)		<u> </u>	- i
	AN	<u>16</u>	Lau, W.H. et IEEE Global 1 1988).	al., "Aı Teleco	nalysis of the mmunication	Time	Variant Structure of Mic ference & Exhibition, IEt	rowave Lin EE, pp. 170	e-of-sigl 7-1711	ht Multipath F (November 2	Phenomena," 8 - December 1,
,	AO 16 Lau, W.H. et al., "Improved Prony Algorithm to Identify Multipath Components," Electronics Letters, IEE, Vol. No. 20, pp. 1059-1060 (September 24, 1987).										tters, IEE, Vol. 23
	AP	<u>16</u>	Lesage, P. and Audoin, C., "Effect of Dead-Time on the Estimation of the Two-Sample Variance," <i>IEEE Transactions on Instrumentation and Measurement</i> , IEEE Instrumentation and Measurement Society, Vol. IM-28, No. 1, pp. 6-10 (March 1979).								
	AQ	<u>16</u>	Liechti, C.A., "Performance of Dual-gate GaAs MESFET's as Gain-Controlled Low-Noise Amplifiers and High-Speed Modulators," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE Microwave Theory and Techniques Society, Vol. MTT-23, No. 6, pp. 461-469 (June 1975).								
	AR	<u>16</u>	Linnenbrink, 1 <i>Scienc</i> e, IEEE	ī.E. et E Nucle	al., "A One (ear and Plas	Gigasa ma So	ample Per Second Trans dences Society, Vol. NS-	ient Record -26, No. 4,	ler," <i>IEE</i> pp. 4443	E Transactio 3-4449 (Augu	ns on Nuclear st 1979).
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V	AA17	4,9	55,079	09/19	990	Con	nemey et al.	455	325	
	AB17	4,9	65,467	10/19	990	Bilte	rijst	307	352	
	AC17	4,90	67,160	10/19	990	Quie	vy et al.	328	16	
	AD17	4,9	70,703	11/19	990	Haril	naran et al.	367	138	·
	AE17	4,9	82,353	01/19	991	Jaco	b et al.	364	724.10	
	AF17	4,9	84,077	01/19	991	Uchi	da	358	140	
	AG17	4,99	95,055	02/19	991	Weir	berger et al.	375	5	
	AH17	5,00	03,621	03/19	991	Gailu	ıs	455	209	
	Al17	5,00	05,169	04/19	991	Bron	der et al.	370	76	
					FOREIGN	PAT	ENT DOCUMENTS			
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4	AJ17	JP :	5-175730		07/1993		JP	H03D	1/00	N
	AK17	JP 9	5-175734		07/1993		JP	H03D	3/00	N
)	AL17	JP 7	7-154344		06/1995		JP	Н04В	14/06	N
L	AM17	JP 7	7-307620		11/1995		JP	H03D	1/18	N
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+	AN	17	Liou, M.L., "A IEEE, Vol. 71	Tutori , No. 8	ial on Compu 3, pp. 987-10	uter-Ai 105 (Ai	ded Analysis of Switched- ugust 1983).	Capacitor Circuit	s," <i>Proceedin</i>	gs of the IEEE,
	AO	17	Lo, P. et al., 19 (March 26, 19	Cohen 80).	ent Automat	ic Gaiı	n Control," <i>IEE Colloquium</i>	on Phase Locks	ed Technique:	s, IEE, pp. 2/1-2/6
	AP	17	Lo, P. et al., " Third Internati	Compi ional C	utation of Ra Conference o	in Indi	uced Scintillations on Sate annas and Propagation (IC	llite Down-Links AP 83), pp. 127-	at Microwave 131 (April 12	Frequencies," -15, 1983).
	AQ	<u>17</u>	Lo, P.S.L.O. e	ol al., " /ol. 20	Observation	s of Ai	mplitude Scintillations on a 8 (March 29, 1984).	Low-Elevation f	Earth-Space F	Path," <i>Electronic</i> s
	AR	<u>17</u>	Madani, K. an Techniques, II	d Aithi EEE N	ison, C.S., "A licrowave Th	A 20 G	thz Microwave Sampler," <i>II</i> and Techniques Society, V	EEE Transaction ol. 40, No. 10, p	s on Microwa p. 1960-1963	ve Theory and (October 1992).
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Je	AA18	5,000	6,810	04/19	991	Pope	scu		328	167	
- Y	AB18	5,010	0,585	04/19	991	Garc	ia		455	118	
	AC18	5,014	4,304	05/19	991	Nicol	lini et al.		379	399	
	AD18		5,963	05/19	991	Sutto	n		329	361	
	AE18	5,01	7,924	05/19	991	Guib	erteau <i>et al.</i>		342	195	
	AF18	5,020	0,149	05/19	991	Hem	mie		455	325	
	AG18	5,02	0,154	05/19	991	Zierh	ut		455	608	
	AH18	5,05	2,050	09/19	91	Collie	er et al.		455	296	
1	Al18	5,06	5,409	11/19	91	Hugh	es et al.		375	91	
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XAMINER NITIAL		DOC	UMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATIO
1.	AJ18	JP 5	5-66057		05/1980		JP .		G06K	7/10	
7	AK18	JP 6	3-65587		03/1988		JP		G06K	7/10	٨
	AL18	JP 6	3-153691		06/1988		JP		G06K	17/00	
	AM18	EP 0	276 130 A28	43	07/1988		EP		H03D	7/00	N/
			ОТН	ER (Inc	cluding Aut	hor, T	tie, Date, Pertinent Pa	iges, e	tc.)		
-	AN	18	Marsland, R. Institute of Pl	A. et a. nysics,	/., "130 Ghz Vol. 55, No.	GaAs . 6, pp	monolithic integrated ci 592-594 (August 7, 19	rcuit sa 189).	ampling head	," Appl. Phys	: Lett., American
	AO	<u>18</u>	Martin, K. and	d Sedr Systen	a, A.S., "Sw ns, IEEE Cire	ritched- cuits a	Capacitor Building Bloond Systems Society, Vo	cks for bl. CAS	Adaptive Sys -28, No. 6, p	items," <i>IEEE</i> p. 576-584 (.	Transactions on lune 1981).
	АР	<u>18</u>	Tropospheric	Turbu	ilence on Ea	ırth-Sa	-based Prediction of Antellite Microwave Links, ety, Vol. 46, No. 10, pp.	" IEEE	Transactions	s on Antenna	e to Clear-Air s and Propagatio
	AQ	<u>18</u>					ations due to rain in sat No. 3, pp. 935-941 (Ma			n systems," /	Radio Science,
	AR	<u>18</u>	McQueen, J. Vol. XXIV, No				gh-Speed Waveforms," ber 1952).	Electr	onic Enginee	ring, Morgan	Brothers Limited
EXAMINER			1						DATE CON	SIDERED	- ارت ا ه -

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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

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Sorrells et al.

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EXAMINER INITIAL		DOCUMEN NUMBER	IT DA	ATE	NAM	E		CLASS	SUB- CLASS	FILING DATE
	AA19	5,083,050	01	1/1992	Vasil	e		307	529	
γ	AB19	5,091,921	02	2/1992	Mina	mi		375	88	
	AC19	5,095,533	03	3/1992	Lope	r et al.		455	245	
	AD19	5,095,536	03	3/1992	Lope	ſ		455	324	
	AE19	5,111,152	05	5/1992	Maki	по		329	300	
	AF19	5,113,094	05	5/1992	Grac	e et al.		307	529	
	AG19	5,113,129	05	5/1992	Hugh	nes		323	316	
	AH19	5,122,765	06	3/1992	Pata	ut		332	105	
3	A119	5,124,592	06	3/1992	Hagi	no		307	520	
				FOREIGN	N PAT	ENT DOCUMENTS				
EXAMINER NITIAL		DOCUMEN	T NUMBER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION
~	AJ19	WO 95/010	06 A1	01/1995		PCT		нозм	1/66	N/A
	AK19	WO 97/088	39 A2&A3	03/1997		PCT		H04B	1/04	N//
	AL19									Ye N
	AM19									Ye:
			OTHER (Including Aut	hor, T	tie, Date, Pertinent Pa	ges, etc	.)		
<u>, </u>	AN	19 Merke Vol. S	elo, J. and I SC-7, No. 1,	Hall, R.D., "Broa , pp. 50-54 (Fet	ad-Bar bruary	nd Thin-Film Signal Sar 1972).	mpler," <i>IE</i>	EE Journa	l of Solid-Sta	te Circuits, IEEE,
Y	AO	19 Merlo No. 2:	, U. <i>et al.</i> , ". 3, pp. 1094	Amplitude Scin -1096 (Novemb	itillation per 7, 1	n Cycles in a Sirio Sate 985).	llite-Earth	ı Link," <i>El</i> e	ctronics Lette	ers, IEE, Vol. 21,
	АР	Morris <u>19</u> cosmi (II) 19	ic signal so	o-holographic n urce," <i>Astronon</i>	eflecto	r measurement of the 3 Astrophysics, Springer	30-m milli r-Verlag,	meter radio Vol. 203, N	o telescope a lo. 2, pp. 399	1 22 Ghz with a 406 (September
	AQ	19 Mouls of Ele	ley, T.J. et ctronic and	al., "The efficie Radio Enginee	ent acq	uisition and processing RE, Vol. 55, No. 3, pp. 9	of propa 97-103 (N	gation stati Narch 1985	stics," <i>Journa</i>).	al of the Institution
	AR	<u>19</u> <i>Collog</i>	D. et al., 'V quium on Re mber 16, 1	adio Communic	istical (Characterization of an (at Microwave and Milli	Over-the- metre Wa	Sea Experi ave <i>Fr</i> eque	mental Trans ncies, IEE, p	shorizon Link," <i>IEI</i> p. 1/1-1/6
XAMINER	<u> </u>	1	1				D/	ATE CONS	IDERED	09/17/

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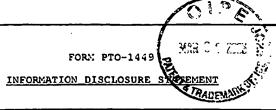
ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	IE	CL	ASS	SUB- CLASS	FILING DATE
7	AA20	5,13	36,267	08/1	992	Cab	ot	33:	3	174	
	AB20	5,14	40,705	08/19	992	Kosı	ıga	45	5	318	
	AC20	5,15	50,124	09/19	992	Moo	re et al.	34	2	68	
	AD20	5,15	51,661	09/19	992	Cald	well et al.	32	8	14	
	AE20	5,15	59,710	10/19	992	Cus	lin	45	5	304	
	AF20	5,17	70,414	12/19	992	Silvi	an	379	5	59	
	AG20	5,17	72,070	12/19	992	Hirai	wa et al.	329	9	304	
	AH20	5,19	91,459	03/19	993	Thor	npson <i>et al</i> .	359	9	133	
ν	AI20	5,20)4,642	04/19	993	Ashg	ar et al.	33	1	135 .	
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	AJ20 AK20	-									Yes No
	AL20	-							<u> </u>		Yes No
		-								<u> </u>	Yes No
	AM20										Yes No
			OTHE	R (Inc	luding Aut	nor. T	ltie, Date, Pertinent Pag	es. etc.)			
	AN	<u>20</u>	Ndzi, D. et al. Link," IEE Co. Radio, IEE, p	lloquiu	ım on Propag	gation	Signal Levels and Dopp Characteristics and Rela , 1997).	ler Spread	on an C I Techn	over-The-Sea iques for Bey	Transhorizon ond Line-of-Sight
	AO	<u>20</u>	"New zero IF (September 1	chipse 995).	et from Philip	s," <i>Eld</i>	ectronic Engineering, Uni	ted News 8	Media,	, Val. 67, N o.	825, p. 10
	АР	20	Ohara, H. et e Publishing Co	d., "Fii mpan	rst monolithic y, Vol. 27, N	c PCM o. 8, p	filter cuts cost of telecor p. 130-135 (April 12, 197	nm system 9).	s," <i>Elec</i>	tronic Desigr	n, Hayden
	ΑQ	<u>20</u>	Oppenheim, A	V.V. et	al., Signals	and S	ystems, Prentice-Hall, pp	. 527-531 a	and 561	-562 (1983).	
	AR	20	Ortgles, G., "E	Experti otters,	nental Parar IEE, Vol. 21	meters	Affecting Amplitude Scir 7, pp. 771-772 (August 1	ntillation Me 5, 1985).	asuren	nents on Sate	ellite Links,"
EXAMINER	11		9	7				DATE	CONS	IDERED 51	Inloo



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APPLICANT Sorrells et al.

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				U.S. P		T DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DAT		NAV		CLASS	SUB- CLASS	FILING DATE
- 11:	AA21	5,212,827	05/1	993	Mes	zko <i>et al</i> .	455	219	
F	AB21	5,214,787	05/1	993	Kark	ota, Jr.	455	3.2	
	AC21	5,220,583	06/1	993	Solo	mon	375	82	
	AD21	5,220,680	06/1	993	Lee		455	102	
	AE21	5,222,144	06/1	993	While	ehart	381	15	
	AF21	5,230,097	07/1	993	Cum	e et al.	455	226.1	
ļ.	AG21	5,239,686	08/1	993	Dow	ney	455	78	
	AH21	5,241,561	08/1	993	Bam	ard	375	1	
	A121	5,249,203	09/1	993	Lope	r	375	97	
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EXAMINER NITIAL		DOCUMENT NU	MBER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ21 AK21								Ye N
	AL21								Yes No
									Ye:
	AM21								Ye:
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	AN	21 Pärssinen o Theory and	et al., "A I Technic	2-GHz Subl ques, IEEE, '	narmor Vol. 45	nic Sampler for Signal Do i, No. 12, 7 pages (Dece	ownconversion," mber 1997).	IEEE Transac	tions on Microwave
	AO	Peeters, G. Measureme 88 (March-	ents," <i>Int</i>	lemational Jo	f Statis ournal	itical Models for Clear-Ai of Satellite Communicati	ir Scintillation Pr ions, John Wiley	ediction Using and Sons, Vol	Olympus Satellite . 15, No. 2, pp. 73-
	АР	21 Реггеу, А.С Dept. of Co	6. and Sommerce	choenwetter, , pp. 1-14 (M	H.K., 1ay 19	NBS Technical Note 112 80).	21: A Schottky D	iode Bridge Sa	mpling Gate, U.S.
	ΑQ	21 Poulton, K. pp. 962-969	et al., "/ Oecer	A 1-Ghz 6-bit nber 1987).	ADC	System," <i>IEEE Journal</i> o	of Solid-State Cir	cuits, IEEE, Vo	ol. SC-22, No. 6,
	AR	21 Press Rele (April 6, 199	ase, "Pa 94).	rkervision, In	ıc. Anr	ounces Fiscal 1993 Res	ults," Lippert/He	ilshom and As	sociates, 2 Pages
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ATTY. DOCKET NO. 1744.0140005 APPLICATION NO. 09/77C,675

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-12	- AA22	5,2	251,218	10/1	993	Stor	e et al.	370	D _.	120	
Y	AB22	5,2	251,232	10/1	993	Non	ami	37	5	5	
	AC22	5,2	260,970	11/1	993	Hen	y et al.	379	5	10	
	AD22	5,2	262,194	11/1	993	Rag	an	459	5	316	
	AE22	5,2	263,196	11/1	993	Jasp	er	45	5	324	
	AF22	_	267,023	11/1	993	Kaw	asaki	358	3	23	
	AG22		278,826	01/1		Mur	hy et al.	370)	76	
	AH22	_	82,023	01/1		Scar		356		36	ļ
	Al22	5,2	87,516	02/1	994	Sch	ıub	375	5	88	1
					FOREIGN	PAT	ENT DOCUMENTS				
EXAMINER INITIAL		DC	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
	AJ22										Yes No
	AK22										Yes No
	AL22										Yes No
	AM22										Yes
			OTHE	:D (In	cluding Auti	has T	l Itle, Date, Pertinent Page	o oto)		<u> </u>	No
	AN	<u>22</u>	Press Releas	e. "Pa	rkervision. In	nc. An	nounces the Appointment I Associates, 1 Page (Apr	of Michael	Baker	to the New P	osition of National
\	AO	<u>22</u>	Press Releas Associates, 2	e, "Pa Page	rkervision's (s (April 8, 19	Came	aman Well-Received By (Distance Lo	eaming	Market," Lip	pert/Heilshom and
	АР	22	Press Releas Associates, 2	e, "Pa Page	rkervision, In s (April 26, 1	ic. Ani 994).	nounces First Quarter Fina	ancial Res	ults," Li	ppert/Heilsho	om and
	AQ	22	Press Release Lippert/Heilsh	e, "Pa om ar	rkervision, In nd Associates	ic. Ani s, 1 Pa	nounces The Retirement cage (May 11, 1994).	of William H	1. Fletc	her, Chief Fir	nancial Officer,"
2	AR	22	Press Releas Lippert/Heilsh	e, "Pa om ar	rkervision, In	c. Ani	nounces New Cameramar ages (June 9, 1994).	System II	™ At Ir	nfocomm Trad	de Show,"
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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

APPLICANT Sorrells et al.

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EXAMINER INITIAL		DOCUMENT NUMBER	DAT		NAM		CLASS	SUB- CLASS	FILING DATE
12	AA23	5,293,398	03/1	994	Ham	ao et al.	375	1	
þ	AB23	5,303,417	04/1	994	Laws		455	314	
	AC23	5,307,517	04/1	994	Rich	•	455	306	
	AD23	5,315,583	05/1	994	Murp	hy et al.	370	18	
	AE23	5,321,852	06/1	994	Seor	9	455	182.1	
	AF23	5,325,204	06/1	994	Scar	pa	348	607	
	AG23	5,337,014	08/1	994	Najle	et al.	324	613	
	AH23	5,339,054	08/1	994	Tagu	chi	332	100	
	A123	5,339,459	08/1	994	Schil	tz et al.	455	333	
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	AJ23							1	Ye
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	AL23								Ye N
	AM23								Ye
		<u> </u>	4450.41-			tie, Date, Pertinent Pag			l N
∇	AN	Press Rele Associates	ase, "Pa , 2 Page	arkervision, li s (June 17,	nc. Anı 1994).	nounces Appointments to	its National Sales	Force," Lipp	ert/Heilshorn and
1	АО	23 Press Rele Lippert/Hei	ase, "Pa Ishom a	nrkervision, li nd Associate	nc. Ani es, 3 Pa	nounces Second Quarter ages (August 9, 1994).	and Six Months F	inancial Res	ults,"
	АР	23 Press Rele Lippert/Hei	ase, "Pa Ishom a	ırkervision, Ir nd Associate	nc. Anr es, 3 Pa	nounces Third Quarter ar ages (October 28, 1994).	nd Nine Months Fi	nancial Resu	its,"
	AQ	23 Press Rele Lippert/Hei	ase, "Pa Ishom a	ırkervision, Ir nd Associate	nc. Anr es, 2 Pa	nounces First Significant ages (November 7, 1994)	Dealer Sale of Its).	Cameraman	® System II,"
	AR	Press Rele Associates	ase, "Pa , 2 Page	rkervision, Ir s (March 1,	nc. Anr 1995).	nounces Fourth Quarter a	and Year End Resi	ults," Lippert	Heilshorn and
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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

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Sorrells et al.

FILING DATE January 29, 2001

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
-12	AA24	5,355,114	10/1994	Sutterlin et al.	340	310 A	
<u> </u>	AB24	5,361,408	11/1994	Watanabe et al.	455	324	
	AC24	5,369,800	11/1994	Takagi et al.	455	59	
	AD24	5,375,146	12/1994	Chalmers	375	103	
	AE24	5,379,040	01/1995	Mizomoto et al.	341	143	
	AF24	5,379,141	01/1995	Thompson et al.	359	125	
	AG24	5,388,063	02/1995	Takatori et al.	364	724.17	
	AH24	5,390,364	02/1995	Webster et al.	455	52.3	
	Al24	5,400,084	03/1995	Scarpa	348	624	

FOREIGN PATENT DOCUMENTS **EXAMINER** INITIAL **DOCUMENT NUMBER** DATE COUNTRY CLASS SUB-TRANSLATION CLASS AJ24 Yes No AK24 Yes No AL24 Yes No AM24 Yes No

Press Release, "Parkervision, Inc. Announces Joint Product Developments With VTEL," Lippert/Heilshorn and AN 24 Associates, 2 Pages (March 21, 1995).

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Press Release, "Parkervision Wins Top 100 Product Districts' Choice Award," Parkervision Marketing and AP <u>24</u> Manufacturing Headquarters, 1 Page (June 29, 1995).

Associates, 3 Pages (April 28, 1995).

Press Release, "Parkervision National Sales Manager Next President of USDLA," Parkervision Marketing and Manufacturing Headquarters, 1 Page (July 6, 1995).

Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and

Press Release, "Parkervision Granted New Patent," Parkervision Marketing and Manufacturing Headquarters, 1 Page (July 21, 1995).

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

ATTY. DOCKET NO. 1744.0140005 APPLICANT

APPLICATION NO. 09/770,678

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1	AA25	5,4	04,127	04/19	995	Lee	et al.	34	10	310.02	
- 1	AB25	5,4	10,541	04/1	995	Hott	0	37	70	76	
	AC25	5.4	10,743	04/19	995	Seel	y et al.	4	55	326	
	AD25	5,4	12,352	05/19	995	Grat	am	33	32	103	
	AE25	5,4	16,803	05/19	995	Jane	r	37	75	324	
	AF25	5,42	22,913	06/19	995	Wilk	Inson	37	75	347	
	AG25	5,42	23,082	06/19	995	Cyga	an et al.	45	55	126	
	AH25	5,42	28,638	06/19	995	Cioff	i et al.	37	75	224	
حل	Al25	5,42	28,640	06/19	995	Tow	nley	37	75	257	
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	AJ25										Yes No
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	AN	<u>25</u>	Press Releas	e. "Pa	rkervision. I	nc. An	nounces Second Quarte arters, 2 Pages (July 31	r and Six M	lonths F	inancial Resu	ults," Parkervision
P	AO	<u>25</u>	Press Releas and Manufact	e, "Par uring l	rkervision, li Headquarter	nc. Exp rs, 2 Pa	pands Its Cameraman S ages (September 22, 19	ystem II Pro 95).	oduct Li	ne," Parkervis	sion Marketing
	AP	<u>25</u>	Press Release Manufacturing	e, "Pai Head	rkervision A Iquarters, 2	nnound Pages	es New Camera Contro (October 25, 1995).	l Technolog	gy," Par	kervision Mar	keting and
	AQ	<u>25</u>	Press Release Parkervision I	e, "Par Market	rkervision, Ir ing and Mar	nc. Anr	nounces Completion of Nring Headquarters, 2 Pa	/TEL/Parke	rvision . per 30, 1	Joint Product 995).	Line,"
	AR	<u>25</u>	Press Release Marketing and	e, "Par I Manu	kervision, In	nc. Anr eadqua	ounces Third Quarter auters, 2 Pages (October	nd Nine Ma 30, 1995).	nths Fir	nancial Result	s," Parkervision

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FORM PTO-144 INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

APPLICANT

Sorrells et al.

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EXAMINER NITIAL		DOCUMENT NUMBER	DAT	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
	AA26	5,434,546	07/1	995	Palm	er	332	151	
4	A826	5,438,692	08/1	995	Mohi	ndra	455	324	
	AC26	5,444,415	08/1	995	Dent	et al.	329	302	
	AD26	5,444,416	08/1	995	Ishik	awa et al.	329	341	
	AE26	5,444,865	08/1	995	Heck	et al.	455	86	
	AF26	5,446,421	08/1	995	Kech	kaylo	332	100	1
	AG26	5,446,422	08/1	995	Matti	la et al.	332	103	
	AH26	5,448,602	09/1	995	Ohm	ori et al.	375	347	
رك	A126	5,451,899	09/1	995	Lawte	on	329	302	
				FOREIGN	PATE	NT DOCUMENTS			
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	AK26				_				Y
	AL26								1
	AM26	Ì							Y
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+		Parkervision	n Marke	ting and Mar	nufactu	aman Personal Locator (ring Headquarters, 2 Pa rounces Purchase Comn arters, 1 Page (February	ges (November 1,	1995).	
	АР	26 Press Relea	ase, "Pa cturing (rkerVision, Ir Headquarter	nc. Anr s, 2 Pa	nounces Fourth Quarter ages (February 27, 1996)	and Year End Res	ults," Parken	vision Marketing
	ρA	26 Press Relea	ise, "Pa rs, 2 Pa	rkerVision, Ir ges (March 7	nc. Exp 7, 1996	pands its Product Line," F	Parkervision Marke	ting and Ma	nufacturing
	AR	Press Relea	ise, "Pai	rkerVision Fi Headquarters	les Par	tents for its Research of ge (March 28, 1996).	Wireless Technolo	egy," Parkerv	islon Marketing
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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

APPLICANT Sorrells et al

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						ATEN	T DOCUMENTS				
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAN	IÉ	CL	ASS	SUB- CLASS	FILING DATE
	AA27	5,4	54,007	09/1	995	Dutta		375	5	322	
No.	AB27	5,4	54,009	09/1	995	Fruit	et al.	372		202	
-	AC27	5,40	63,356	10/1	995	Palm	ner	332	2	117	
·	AD27	5,40	63,357	10/1	995	Hob	ien	332	?	151	
	AE27	5,46	65,071	11/1	995	Koba	yashi <i>et al.</i>	329)	315	
	AF27	5,46	55,410	11/1	995	Hibe	n et al.	455	 ;	266	
	AG27	5,46	65,415	11/1	995	Bien		455		326	
	AH27	5,47	71,162	11/1	995	McE	wan	327	,	92	
4	Al27	5,47	79,120	12/1	995	McE	wan	327		91	
					FOREIGN	PAT	ENT DOCUMENTS	1			<u> </u>
EXAMINER INITIAL		DO	CUMENT NUME	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
	AJ27										Yes No
	AK27										Yes
	AL27							-			Yes
	AM27	+-	· · · · · · · · · · · · · · · · · · ·								No Yes
		<u></u>	OTHE				itle, Date, Pertinent Page			<u> </u>	No
	AN	27	Press Release	e. "Pa	rkervision. In	c. Anı	nounces First Significant S iring Headquarters, 2 pag	Sale of its (Camera 2, 1996	man® Three).	-Chip System,"
	AO	<u>27</u>	Press Release Marketing and	e, "Pa I Mani	rkervision, In ufacturing He	c. Intr adqua	oduces New Product Line arters, 2 Pages (April 15,	For Studio 1996).	Produ	ction Market,	" Parkervision
	АР	<u>27</u>	Press Release and Manufact	e, "Pa uring l	rkervision, Ind Headquarters	c. Anr i, 1 Pa	nounces Private Placemer age (April 15, 1996).	nt of 800,00	00 Shar	es," Parkervi	sion Marketing
	AQ	<u>27</u>	Press Release Manufacturing	e, "Par Head	rkervision, Inc Iquarters, 3 F	c. Anr Pages	nounces First Quarter Fina (April 30, 1996).	ancial Resu	ilts," Pa	arkervision M	arketing and
	AR	<u>27</u>	Press Release Headquarters,	e, "Pai 2 Pai	rkerVision's N ges (June 5,	lew S 1996)	tudio Product Wins Award	d," Parkervi	ision M	arketing and	Manufacturing
EXAMINER	<u>1</u>		1		1	<u></u>		DATE	CONSI	DERED	-1.1.5

FORM PTO-1449

ATY. DOCKET NO.

APPLICATION NO. 09/770,675

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				-	U.S. P	ATEN	T DOCUMENTS		12003		
EXAMINER INITIAL			CUMENT MBER	DAT		NAM		CI	ASS	SUB- CLASS	FILING DATE
	AA28	5,47	79,447	12/19	995	Cho	v et al.	37	'5	260	
P	AB28	5,48	33,193	01/19	996	Kenr	edy et al.	32	9	300	
	AC28	5,48	3,549	01/19	996	Weir	berg et al.	37	' 5	200	
	AD28	5,48	33,691	01/19	996	Heck	et al.	45	5	234.2	<u> </u>
	AE28	5,49	90,173	02/19	996	Whil	ehart et al.	37	5	316	
	AF28	5,49	93,581	02/19	996	Your	g et al.	37	5	350	
	AG28	5,49	93,721	02/19	996	Reis		45	5	339	
	AH28	5,49	95,200	02/19	996	Kwa	n et al.	32	7	554	
	Al28	5,49	95,202	02/19	96	Hsu		32	27	113	<u> </u>
	<u>-</u>				FOREIGN	PAT	ENT DOCUMENTS				
EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	CI	ASS	SUB- CLASS	TRANSLATION
	AJ28										Yes No
	AK28										Yes No
	AL28										Yes No
	AM28								·		Yes No
			ОТНЕ	R (Inc	duding Aut	hor, T	tle, Date, Pertinent Pa	ges, etc.)			
	AN	<u>28</u>	Press Releas Marketing and	e, "Pa d Mani	rkervision, Ir ufacturing H	nc. Anı eadqu	nounces Second Quarte arters, 3 Pages (August	er and Six M 1, 1996).	onths F	inancial Resu	ults," Parkervision
	AO	<u>28</u>	Press Releas Marketing an	e, "Pa d Mani	rkervision, Ir ufacturing H	nc. Anı eadqu	nounces Third Quarter a arters, 2 Pages (Octobe	and Nine Mo r 29, 1996).	onths Fir	nancial Resul	its," Parkervision
	АР	<u>28</u>	Press Releas Manufacturing	e, "Pic g Head	tureTel and Iquarters, 2	Parke Pages	Vision Sign Reseller A (October 30, 1996).	greement," (Parkervi	sion Marketir	ng and
	AQ	<u>28</u>	Press Releas Pages (Janua	e, "CL iry 20,	I and Parker 1997).	Vision	Bring Enhanced Ease-	of-Use to Vi	deocont	ferencing," C	LI/Parkervision, 2
	AR	<u>28</u>	Press Releas and Manufact	e, "Par uring I	rkervision, Ir Headquarter	nc. Anr s, 3 Pa	iounces Fourth Quarter iges (February 27, 1997	and Year E	nd Resi	ults," Parkerv	ision Marketing

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DATE CONSIDERED

EXAMINER: Initial If reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT MADEMANY

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APPLICATION NO. 09/770,675

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syrrells et al.

FILING DATE
January 29, 2001

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				U.S. P	ATENT DOCUMENTS			
EXAMINER NITIAL		DOCUMENT NUMBER	DAT	E	NAME	CLASS	SUB- CLASS	FILING DATE
1	AA29	5,495,500	02/1	996	Jovanovich et al.	375	206	
W	AB29	5,499,267	03/1	996	Ohe et al.	375	206	
1	AC29	5,500,758	03/1	996	Thompson et al.	359	189	
	AD29	5,517,688	05/1	996	Fajen et al.	455	333	
	AE29	5,519,890	05/1	996	Pinckley	455	307	
	AF29	5,523,719	06/19	996	Longo et al.	327	557	
	AG29	5,523,726	06/19	996	Kroeger et al.	332	103	
	AH29	5,523,760	06/19	996	McEwan	342	89	
سل	Al29	5,539,770	07/19	996	Ishigaki	375	206	
				FOREIG	PATENT DOCUMENTS			
XAMINER NITIAL		DOCUMENT NUI	MBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATIO
	AJ29	}					<u> </u>	Ye
	AK29							Ye
	AL29							Ye N
	AM29							Ye
		ОТІ	IER (Inc	luding Aut	hor, Title, Date, Pertinent I	Pages, etc.)		
<u> </u>	AN	29 Press Relea	ase, "Pa ing Head	rkervision, li Iquarters, 3	nc. Announces First Quarter Pages (April 29, 1997).	Financial Results," f	Parkervision I	Marketing and
Y	AO	29 Press Relea 1997).	ase, "NE	C and Park	ervision Make Distance Lear	ming Closer," NEC A	merica, 2 Pa	ges (June 18,
	AP	29 Press Relea Parkervision	ase, "Pa n Marke	rkervision Soling and Mar	upplies JPL with Robotic Ca nufacturing Headquarters, 2	meras, Cameraman pages (July 8, 1997)	Shot Director	for Mars Mission
	AQ	29 Press Relea	ise, "Pa nd Man	rkerVision aufacturing H	nd IBM Join Forces to Creat eadquarters, 2 Pages (July 2	le Wireless Compute 23, 1997).	r Peripherals,	" Parkervision

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ATTY. DOCKET NO. 1744.0140005 APPLICATION NO. 09/770,675

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Sorrells et al. FILING DATE

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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
Y	AA30	5,55	5,453	09/19	96	Kajim	noto et al.	455	266	
PC	AB30	5,55	7,641	09/19	996	Wein	berg	375	295	
	AC30	5,55	7,642	09/19	996	Willia	ims	375	316	
	AD30	5,57	9,341	11/19	96	Smith	n et al.	375	267	
	AE30	5,57	9,347	11/19	96	Lindo	uist et al.	375	346	
	AF30	5,58	4,068	12/19	96	Mohi	ndra	455	324	
	AG30	5,59	2,131	01/19	97	Labre	eche et al.	332	103	
	AH30	5,60	2,847	02/19	97	Paga	no et al.	370	484	
1	Al30	5,60	2,868	02/19	97	Wilso	on	375	219	
					FOREIGN	PATE	NT DOCUMENTS			
EXAMINER NITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATIO
	AJ30									Ye N
	AK30							·		Ye N
	AL30					_				Ye N
	AM30									Ye
	•		OTHE	R (Inc	Judina Auti	nor. Ti	tle, Date, Pertinent Pag	as etc.)		
1	AN	<u>30</u>	Press Releas and Manufact	e, "Pa uring I	rkervision, Ir Headquarter	nc. Anr s, 2 Pa	nounces Private Placeme ages (September 8, 1997	ent of 990,000 Sha	ares," Parken	vision Marketing
	AO	<u>30</u>	Press Releas Manufacturing	e, "Wa g Head	al-Mart Choo Iquarters, 2	ses Pa Pages	arkervision for Broadcast (October 24, 1997).	Production," Part	cervision Mar	keting and
	АР	<u>30</u>	Press Releas Manufacturing	e, "Pai Head	rkervision, In Iquarters, 3	ic. Anr Pages	ounces Third Quarter Fi (October 30, 1997).	nancial Results,*	Parkervision (Marketing and
	AQ	<u>30</u>	Press Releas Marketing and	e, "Pai I Mani	rkerVision A	nnound	ces Breakthrough in Wire Inters, 3 Pages (Decemb	eless Radio Frequ er 10, 1997).	ency Techno	logy," Parkervisio
	AR	<u>30</u>	Press Release President, Lic Pages (Janua	ensing	ı - Wireless '	ic. Ann Techno	ounces the Appointment plogies," Parkervision Ma	of Joseph F. Sko rketing and Manu	vron to the P	osition of Vice adquarters, 2

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Page 31 of 56 ATTY. DOCKET NO. APPLICATION NO. 1744.0140005 09/770,675 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE FILING DATE GROUP January 29, 2001 2683 HADEMAN U.S. PATENT DOCUMENTS **EXAMINER** DOCUMENT NAME CLASS SUB-**FILING DATE** INITIAL DATE NUMBER CLASS **AA31** 5,604,732 02/1997 Kim et al. 370 342 **AB31** 5,608,531 03/1997 Honda et al. 386 1 AC31 5,610,946 03/1997 Tanaka et el. 375 269 Nicollini AD31 RE 35,494 04/1997 327 554 04/1997 Mimura et al. 375 340 AE31 5.617.451 Sempel et al. AF31 5,619,538 04/1997 375 328 348 6 AG31 5,621,455 04/1997 Rogers et al. 324 **AH31** 05/1997 Bella et al. 455 5,630,227 202 Al31 5,640,415 06/1997 Pandula 375 **FOREIGN PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER** DATE COUNTRY **CLASS** INITIAL SUB-TRANSLATION **CLASS AJ31** Yes Nο **AK31** Yes No AL31 Yes No **AM31** Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Press Release, "Parkervision Announces Existing Agreement with IBM Terminates - Company Continues with AN <u>31</u> Strategic Focus Announced in December," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (January 27, 1998). Press Release, "Laboratory Tests Verify Parkervision Wireless Technology," Parkervision Marketing and AO <u>31</u> Manufacturing Headquarters, 2 Pages (March 3, 1998). Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Financial Results," Parkervision AP <u>31</u> Marketing and Manufacturing Headquarters, 3 Pages (March 5, 1998). Press Release, "Parkervision Awarded Editors' Pick of Show for NAB 98," Parkervision Marketing and AQ <u>31</u> Manufacturing Headquarters, 2 Pages (April 15, 1998).

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Manufacturing Headquarters, 3 Pages (May 4, 1998).

Press Release, "Parkervision Announces First Quarter Financial Results," Parkervision Marketing and

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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

APPLICANT

Sorrells et al.

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EXAMINER INITIAL			CUMENT MBER	DAT		NAN		CL	ASS	SUB- CLASS	FILING DATE
2	AA32	5,64	10,424	06/19	997	Bana	ivong et al.	379	5	316	
the	AB32	5,64	10,428	06/19	997	Abe		375	 5	334	
	AC32	5,64	10,698	06/19	997	Sher	et al.	455	5	323	
	AD32	5,64	18,985	07/19	997	Bjere	ede <i>et al</i> .	375	5	219	
	AE32	5,65	0,785	07/19	997	Roda	1	342	2	357	
	AF32	1-	1,424	08/19		Tang		327		105	
	AG32	+	3,878	09/19		Walk		363		159	ļ
	AH32		3,986	09/19		Striff	 	375		260	·
	A132	5,66	8,836	09/19			h <i>et al.</i>	375	5	316	
		1			FOREIGN	PAT	ENT DOCUMENTS			,	1
EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
	AJ32										Ye N
	AK32					-					Ye
	AL32	<u> </u>									Ye
	AM32				<u> </u>						N Ye
*************************************	<u> </u>	<u> </u>					itle, Date, Pertinent Pag			<u> </u>	N
	AN	<u>32</u>	Press Releas Marketing an	se, "Pa d Mans	rkervision 'Dl ufacturing He	REC1	「2DATA' Introduced in Rearters, 3 Pages (July 9, 1	esponse to 998).	Market	Demand," Pa	arkervision
γ ⊂	AO	<u>32</u>	Press Releas Headquarters	e, "Pa s, 2 Pa	rkervision Ex ges (July 29,	pands 1998	s Senior Management Tea).	am," Parke	rvision	Marketing an	d Manufacturing
	АР	<u>32</u>	Press Releas Marketing an	e, "Pa d Man	rkervision An ufacturing He	nound	pes Second Quarter and Sarters, 4 Pages (July 30,	Six Month F 1998).	inancia	al Results," P	arkervision
	AQ	<u>32</u>	Press Releas Marketing an	e, "Pai d Mani	rkervision An ufacturing He	nound	ces Third Quarter and Nir arters, 3 Pages (October	e Month Fi 30, 1998).	nancial	Results," Pa	rkervision
I	AR	32	Press Releas Marketing and	e, "Qu 1 Manı	estar Infocon ufacturing He	nm, In adqua	c. Invests \$5 Million in Parters, 3 Pages (Decembe	arkervision er 2, 1998).	Commo	on Stock," Pa	arkervision

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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

APPLICANT Sorrells et al.

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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E	CI	ASS	SUB- CLASS	FILING DATE
	AA33	5,6	80,078	10/19	997	Ariie		33	2	178	
<u> </u>	AB33	5,6	80,418	10/1	997	Crof	et al.	37	5	346	
	AC33	5,6	89,413	11/1	997	Jara	millo <i>et al</i> .	36	3	146	
	AD33	5,6	99,006	12/1	997	Zele	et al.	32	7	341	
	AE33	5,70	05,955	01/1	998	Free	burg et al.	33	1	14	
	AF33	5,7	10,998	01/19	998	Opa	<u> </u>	45	5	324	
	AG33	5,7	14,910	02/19	98	Skoo	zen <i>et al.</i>	33	1	3	
	AH33	5,7	15,281	02/19	998	Bly 6	t al.	37	5	344	
	Al33	5,72	21,514	02/19	998	Croc	kett <i>et al</i> .	33	1	3	
					FOREIGN	PAT	ENT DOCUMENTS				
EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	CI	ASS	SUB- CLASS	TRANSLATION
	AJ33										Yes No
	AK33										Yes No
	AL33										Yes No
	AM33										Yes No
	<u> </u>	<u> </u>	OTHE	R (Inc	L	or T	tte, Date, Pertinent Pa	ane etc l			NO
	AN	33		e, "Pa	rkervision Ad	lds Tv	o New Directors," Park		rketing	and Manufact	uring
V C	AO	<u>33</u>	Press Releas Marketing and	e, "Pa J Man	rkervision An ufacturing He	noun	ces Fourth Quarter and arters, 3 Pages (March	Year End F 5, 1999).	nancial	Results," Par	kervision
	АР	<u>33</u>	Press Releas Marketing and	e, "Joi Mani	nt Marketing ufacturing He	Agree	ement Offers New Autor arters, 2 Pages (April 1:	mated Produ 3, 1999).	uction S	olution," Park	ervision
	ρA	<u>33</u>	"Project COS Vol. LIV, No.	T 205: 3, pp. :	Scintillations 209-211 (Ma	s in Ea	nth-satellite links," <i>Alte</i> e, 1985).	Frequenza:	Scientil	īc Review in t	Electronics, AEI,
	AR	<u>33</u>	Razavi, B., <i>Ri</i>	= Micn	pelectronics,	Prent	ice-Hall, pp. 147-149 (1	998).		. ,.	
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FORM PTO-1449

INFORMATION DISCLOSURE STREEMENT

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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

APPLICANT
Sorrells et al.

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INITIAL			UMENT MBER	DAT	E	NAN	IE	CL	ASS	SUB- CLASS	FILING DATE
	AA34	5,72	4,002	03/1	998	Hulid	k	329		361	
	AB34	5,72	4,653	03/1	998	Bake	er et al.	455	i	296	
	AC34	5,72	9,577	03/1	998	Che	1	375	j	334	
	AD34	5,72	9,829	03/19	998	Talw	ar et al.	455	1	63	
	AE34	5,73	2,333	03/19	998	Cox	et al.	455		126	
	AF34	5,73	6,895	04/19	998	Yu e	t al.	327		554	
	AG34	5,73	7,035	04/19	998	Rotz	oll	348		725	
	AH34	5,74	2,189	04/19	998	Yosh	ida <i>et al</i> .	327		113	
	Al34	5,74	8,683	05/19	998	Smit	h <i>et al.</i>	375	,	347	
					FOREIGN	PAT	ENT DOCUMENTS	_			
EXAMINER INITIAL		DOC	UMENT NUM	BER	DATE		COUNTRY	CU	\ss	SUB- CLASS	TRANSLATION
	AJ34										Yes No
	AK34										Yes
	AL34										Yes
	AM34							_		}	Yes
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	Т Т		OTHE	ex (inc	cluding Auth	or, i	tle, Date, Pertinent Pages,	etc.)			
	AN	<u>34</u>	Reeves, R.J.I Brothers Limit	O., "Th led, Vo	ne Recording ol. 31, No. 37	and (3, pp.	Collocation of Waveforms (Pa 130-137 (March 1959).	rt 1)," <i>E</i>	Jectroni	c Engineerin	g, Morgan
γ .	AO	<u>34</u>	Reeves, R.J.I Brothers Limit	D., "Th led, Vo	e Recording bl. 31, No. 37	and C 4, pp.	Collocation of Waveforms (Pa 204-212 (April 1959).	rt 2)," <i>E</i>	lectronic	c Engineerin	<i>g</i> , Morgan
	АР	<u>34</u>	Rein, H.M. an Transistors,"	d Zahi E <i>lectr</i> o	n, M., "Subna onics Letters,	nose IEE,	cond-Pulse Generator with Vol. 11, No. 1, pp. 21-23 (Jan	ariable nuary 9,	Pulsewie 1975).	dth Using Av	alanche
	AQ	<u>34</u>	Riad, S.M. an	d Nahi Interna	man, N.S., "N ational Microv	Aodeli vave :	ng of the Feed-through Wide Symposium Digest, IEEE, pp.	band (C 267-26	C to 12 9 (June	.4 Ghz) Sam 27-29, 1976	pling-Head,").
	AR	<u>34</u>	Rizzoli, V. et a Microwave Th	al., "Co eory a	omputer-Aide and Techniqu	d Noi: es, lE	se Analysis of MESFET and I EE, Vol. 37, No. 9, pp. 1401-	HEMT N 1410 (S	lixers," eptemb	IEEE Transa er 1989).	actions on
EXAMINER	<u>i</u>	1		1	y _			DATE	CONSI	DERED .	137/00

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

APPLICANT

Sorrells et al. FILING DATE

				AUFWANKS.		LING DATE nuary 29, 2001		GROUE 2683	•	
				U.S. P		T DOCUMENTS				
EXAMINER INITIAL		DOCUMENT NUMBER	DAT	E	NAM	E	CL	ASS	SUB- CLASS	FILING DATE
- No	AA35	RE 35,829	06/1	998	Sand	lerford, Jr.	379	5	200	1
Y	AB35	5,760,645	06/1	998	Com	te et al.	329)	304	
	AC35	5,764,087	06/1	998	Clark	S	327	,	105	
	AD35	5,767,726	06/1	998	Wan	9	327	,	356	
	AE35	5,768,118	06/1	998	Faull	c et al.	363)	72	
	AF35	5,771,442	06/1	998	Wan	g et al.	455	5	93	
	AG35	5,777,692	07/1	998	Ghos	ih	348	3	725	·
	AH35	5,777,771	07/1	998	Smiti	n	359)	180	
1	Al35	5,786,844	07/1	998	Roge	rs et al.	348		6	
				FOREIGN	I PATI	ENT DOCUMENTS				
EXAMINER NITIAL		DOCUMENT NU	MBER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
···	AJ35									Ye N
	AK35 AL35									Ye:
					-					Ye:
	AM35									Yes No
	1 -1	ОТ	HER (Inc	cluding Auti	nor, Ti	tie, Date, Pertinent Pag	jes, etc.)			
	AN	Rowe, H.E. Jersey, incl	, <i>Signal</i> ; uding, fo	s <i>and Noise i</i> or example, C	in Com Chapte	nmunication Systems, D. r V, Pulse Modulation S	Van Nostra ystems (196	nd Com 5).	pany, Inc., I	Princeton, New
γ 1	AO	35 Rücker, F. Dependenc	and Dint e," <i>Elec</i> i	elmann, F., * Ironics Letter	Effect s, IEE	of Antenna Size on OTS , Vol. 19, No. 24, pp. 103	Signal Scir 32-1034 (No	ntillation: vember	s and Their 24, 1983).	Seasonal
	AP	35 Russell, R. Proceeding	and Hoa s, Micro	are, L., "Millin wave Exhibiti	neter V Ions ai	Vave Phase Locked Oso nd Publishers, pp. 238-2	cillators," <i>Mi</i> 42 (October	litary Mic 25-27,	crowaves 7 1978).	8 Conference
	ρA	35 Communica	tions." /	Implementa The Institution 23 (October	n of Er	a Robust Flexible Receingineers Australia Comm 1990).	iver/Demulti nunications (plexer fo	or Broadcas nce, Instituti	t Data Satellite on of Engineers,
	AR	Salous, S., /, IEE, Vol.	'IF digita I39, No.	al generation 3, pp. 281-2	of FM Ju	CW waveforms for wideline 1992).	band channe	el chara	cterization,"	IEE Proceedings
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT
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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

APPLICANT

Sorrells et al.

FILING DATE January 29, 2001 GROUP 2683

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				U.S. F	ATEN	T DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DAT	E	NAM	IE	CLASS	SUB- CLASS	FILING DATE			
10	AA36	5,793,801	08/1	998	Ferti	ner	375	219				
W	A836	5,793,818	08/1	998	Clay	don <i>et al</i> .	375	326				
	AC36	5,802,463	09/1	998	1	erman	455	208				
	AD36	5,809,060	09/1	998	Cafa	rella et al.	375	206				
	AE36	5,818,582	10/1	998	Fem	andez <i>et al</i> .	356	318				
	AF36	5,825,254	10/1	998	Lee		331	25				
	AG36	5,834,985	11/1	998	Sund	legård	332	100				
	AH36	5,864,754	01/1	999	Hotte		455	280				
	AI36	5,881,375	03/1	999	Bono							
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	AJ36	<u> </u>				·			Ye N			
	AK36								Ye N			
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	AM36								Ye N			
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	AN	Seeller				Ghz," <i>Microwaves & RF</i>						
	AO	36 Vol. 71,	No. 8, pp. 1	1008-1009 (A	August	ation in the Switched-C 1983).	apacitor Biquad," P	roceedings o	T the IEEE, IEEE,			
	АР	36 Saul, P.	Saul, P.H., "A GaAs MESFET Sample and Hold Switch," Fifth European Solid State Circuits Conference-ESSCIRC 79, IEE, pp. 5-7 (1979).									
	AQ	36 Shen, D).H. et al., "A ircuits, IEEE	N 900-MHZ F Solid-State	RF Froi Circuit	nt-End with Integrated D ts Council, Vol. 31, No.	iscrete-Time Filteri 12, pp. 1945-1954 (ng," <i>IEEE Jo</i> December 1	umal of Solid- 996).			
	Shen, X.D. and Vilar, E., "Anomalous transhorizon propagation and meteorological processes of a multilink path," <i>Radio Science</i> , American Geophysical Union, Vol. 30, No. 5, pp. 1467-1479 (September-October 1995).											

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PTTY. DOCKET NO. 11744.0140005

APPLICATION NO. 09/770,675

APPLICANT Sorrells et al.

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EXAMIN INITIAL	IER			CUMENT IBER	DATI	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
		AA37	5,89	2,380	04/19	999	Quis		327	172	
V		AB37	5,89	4,239	04/19	99	Bona	ocio et al.	327	176	
		AC37	5,89	6,562	04/19	99	Hein	onen	455	76	
		AD37	5,90	0,747	05/19	99	Brau	ns	327	9	
1	1	AE37	5,90	1,054	05/19	99	Leu	et al.	363	41	
	<u> </u>	AF37	5,90	1,187	05/19	99	linun	18	375	347	
	L	AG37	5,90	1,344	05/19	99	Opas		455	76	
		AH37	5,90	1,347	05/19	99	Char	nbers et al.	455	234.1	
`		Al37	5,90	1,348	05/19	99	Bang	et al.	455	254	
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	<u> </u>	AJ37						·			Y
. =		AK37									Y
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.		AN	<u>37</u>	Shen, X. and Mechanisms,	Tawfik " <i>Elect</i>	k, A.N., "Dyn ronics Lette	amic E /s, IEE	Behaviour of Radio Char , Vol. 29, No. 17, pp. 15	nnels Due to Trans 82-1583 (August	s-Horizon Proj 19, 1993).	pagation
7		AO	<u>37</u>	of the parabol	ic Equ	ation and Ra	av Tra	pherical Diffraction and cing Methods," <i>IEE Coll</i> ve propagation, IEE, pp	oauium on Commi	on modeling te	on Path with aid echniques for
		АР	<u>37</u>	Shen, X. and Electronics Le	Vilar, I ette <i>r</i> s,	E., "Path los IEE, Vol. 32	s statis , No. 3	stics and mechanisms o , pp. 259-261 (February	f transhorizon pro (1, 1996).	pagation over	a sea path,"
		AQ	<u>37</u>	Shen, D. et al Circuits Confe	., "A 9 erence	00 MHZ Inte , IEEE, Vol.	grated 39, pp	Discrete-Time Filtering 54-55 and 417 (Februa	RF Front-End," <i>IE</i> ary 1996).	EE Internatio	nal Solid State
1		AR	<u>37</u>	Spillard, C. et Sixth Internati (April 4-7, 198	onal C	-Band Tropo Conference o	ospher on Ante	ic Transhorizon Propaga nnas and Propagation (ation Under Differi	ng Meteorolog Propagation, II	jical Conditions," EE, pp. 451-455
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TTY. DOCKET NO. 1744.0140005 APPLICATION NO. 09/770,675

APPLICANT

Sorrells et al. FILING DATE

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January 29, 2001 2683 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL **DOCUMENT** DATE NAME **CLASS** SUB-FILING DATE NUMBER CLASS **AA38** 5,901,349 05/1999 Guegnaud et al. 455 302 **AB38** 5,903,178 05/1999 Miyatsuji et al. 327 308 AC38 5,903,187 05/1999 Claverie et al. 329 342 AD38 5,903,196 05/1999 Salvi et al. 331 16 **AE38** 5,903,421 05/1999 Furutani et al. 361 58 AF38 5,903,553 05/1999 Sakamoto et al. 370 338 AG38 5.903.595 05/1999 Suzuki 375 207 **8EHA** 5,903,609 05/1999 Kool et al. 375 261 AI38 5,903,827 05/1999 Kennan et al. 455 326 **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY **CLASS** SUB-TRANSLATION CLASS **AJ38** Yes No **AK38** Yes No AL38 Yes No **85MA** Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Stafford, K.R. et al., "A Complete Monolithic Sample/Hold Amplifier," IEEE Journal of Solid-State Circuits, IEEE, AN 38 Vol. SC-9, No. 6, pp. 381-387 (December 1974). Staruk, W. Jr. et al., "Pushing HF Data Rates," Defense Electronics, EW Communications, Vol. 17, No. 5, pp. AO 38 211, 213, 215, 217, 220 and 222 (May 1985). Stephenson, A.G., "Digitizing multiple RF signals requires an optimum sampling rate," Electronics, McGraw-Hill, ΑP <u>38</u> pp. 106-110 (March 27, 1972). Sugarman, R., "Sampling Oscilloscope for Statistically Varying Pulses," The Review of Scientific Instruments, AQ <u> 38</u> American Institute of Physics, Vol. 28, No. 11, pp. 933-938 (November 1957). Sylvain, M., "Experimental probing of multipath microwave channels," Radio Science, American Geophysical AR <u>38</u> Union, Vol. 24, No. 2, pp. 160-178 (March-April 1989). **EXAMINER** DATE CONSIDERED

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conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

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APPLICANT Sorrells et al.

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14	AA39	5,9	03,854	05/19	999	Abe	et al.	45	5	575	
The	AB39	5,9	05,449	05/19	999	Tsub	ouchi et al.	34)	925.69	
	AC39	5,9	07,149	05/19	999	Marc	kini	23	5	487	
1	AD39	5,9	07,197	05/19	999	Faul	<	30	7	119	
	AE39	5,9	11,116	06/19	999	Noss	witz	45	5	83	
	AF39	5,9	11,123	06/19	999	Shaf	fer et al.	45	5	554	
	AG39	5,9	14,622	06/19	999	Inou	9	32	7	172	
	AH39	5,92	20,199	07/19	999	Saue	r	324	4	678	
4	Al39	5,94	43,370	08/19	999	Smit	h	37	5	334	
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	AK39										Ye N
	AL39										Ye
	АМ39										Ye
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a l	AN ,	<u>39</u>	Takano, T., "I (1984).	NOVE	L GaAs Pet F	^o hase	Detector Operable To H	Ka Band," <i>IE</i>	EE MT	-S Digest, IEI	EE, pp. 381-383
- Y -	AO	<u>39</u>	Tan, M.A., "B Systems- I: F 275 (April 199	undan	ratic Transcon	nduct:	ance Switched-Capacito Applications, IEEE Circu	r Filters," <i>IE</i> uits and Syst	EE Tra tems So	nsactions on ociety, Vol. 40	Circuits and D, No. 4, pp. 272-
	AP	<u>39</u>	Tanaka, K. et Electronics, II	<i>el.</i> , "S EEE C	Single Chip M Consumer Ele	lultisy octroni	stem AM Stereo Decode cs Society, Vol. CE-32,	er IC," <i>IEEE</i> No. 3, pp. 4	<i>Tr</i> ansa 82-496	ctions on Col (August 1986	nsumer 5).
	AQ	<u>39</u> .	Tawfik, A.N., Electronics Le	"Ampl etters,	itude, Duratio IEE, Vol. 28,	on and No. 6	Predictability of Long H pp. 571-572 (March 1:	lop Trans-H 2, 1992).	orizon)	K-band Signa	ls Over the Sea,
	AR	<u>39</u>	Tawfik, A.N. a Meteorologica of the IEE, pp	al Pare	ameters," <i>Eig</i>	hth In	of Transhorizon Signal ternational Conference on ril 2, 1993).	Level Streng	gth with	Localized Si ropagation, E	urface lectronics Divisio
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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

APPLICANT Sorrells et al.

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	AA40	4,017,798	04/1	977	Gord	y et al.	325	5	42	
V	AB40	4,032,847	06/1	977	Unka	iuf .	325	5	323	
	AC40	4,253,067	02/1	981	Capl	es et al.	329)	110	
	AD40	4,393,395	07/1	983	Hack	e et al.	358	}	23	
	AE40	4,816,704	03/1	989	Fiori,	.Jr.	307	2	519	
	AF40	4,841,265	06/1	989	Wate	nabe et al.	333	3	194	
	AG40	4,943,974	07/1	990	Mota	medi	375	5	1	
	AH40	5,115,409	05/1	992	Step		364	ļ	841	
4	Al40	5,353,306	10/1	994	Yam	amoto	375	5	14	
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	AL40								ļ	
	AM40									
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	AN	Tawfik, A.N Internationa 4-7, 1989).	. and Vi Il Confe	lar, E., "Dyna rence on Ant	amic S ennas	tructure of a Transhorizo and Propagation (ICAP	n Signal at 89) Part 2: I	X-band Propaga	l Over a Sea ation, IEE, pp	Path," <i>Sixth</i> b. 446-450 (Apr
Y	AO	40 Tawfik, A.N Path," <i>Elec</i> t	. and Vi ronics L	lar, E., "Stati .ette <i>r</i> s, IEE, \	stics o Vol. 26	f Duration and Intensity o , No. 7, pp. 474–476 (Ma	of Path Loss arch 29, 199	in a M 0).	licrowave Tra	nshorizon Sea
	AP	<u>40</u> Path Loss, I	Duration	of Events, a	ind Th	inshorizon Measurement eir Modeling," <i>IEEE Tran</i> II. 41, No. 11, pp. 1491-1	sactions on	Anteni	nas and Pron	ne Sea- Part 1: Pagation, IEEE
	AQ	Temes, G.C IEEE, Vol. 7	. and Ti 1, No. 8	sividis, T., "T 3, pp. 915-91	he Spi 6 (Aug	ecial Section on Switcher ust 1983).	d-Capacitor	Circuit	s," <i>Proceedir</i>	ngs of the IEEE
L	AR	40 Thomas, G.	B., Calc	ulus and Ana	alytic C	Seometry, Third Edition, I	Addison-We	sley Po	ublishing, pp.	119-133 (1960
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. OFMAWHOOMAISKOF_OC1;37381;1

FORM PTO-144

INFORMATION DISCLOSURE STREMENT WITH

ATTY. DOCKET NO. 1744.0140005 O9/770,675

APPLICANT Sorrells et al.

FILING DATE GROUP

January 29, 2001 2683 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT DATE NAME CLASS SUB-FILING DATE NUMBER CLASS **AA41** 5,515,014 05/1996 Troutman 178 332 **AB41** 5,563,550 10/1996 Toth 329 347 AC41 5,574,755 11/1996 Persico 375 295 AD41 5,604,592 02/1997 Kotidis et al. 356 357 AE41 5,638,396 06/1997 Klimek 372 92 AF41 5,675,392 10/1997 Nayebi et al. 348 584 **AG41** 5,694,096 12/1997 Ushiroku et al. 333 195 **AH41** 5,757,870 05/1998 Miya et al. 375 367 **AI41** 06/1998 5,768,323 Kroeger et al. 375 355 **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY **CLASS** SUB-TRANSLATION **CLASS** AJ41 Yes No AK41 Yes Nο AL41 Yes No AM41 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Tomassetti, Q., "An Unusual Microwave Mixer," 16th European Microwave Conference, Microwave Exhibitions and Publishers, pp. 754-759 (September 8-12, 1986). AN 41 Tortoli, P. et al., "Bidirectional Doppler Signal Analysis Based on a Single RF Sampling Channel," *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, IEEE Ultrasonics, Ferroelectrics, and AO <u>41</u> Frequency Control Society, Vol. 41, No. 1, pp. 1-3 (January 1984). Tsividis, Y. and Antognetti, P. (Ed.), Design of MOS VLSI Circuits for Telecommunications, Prentice-Hall, p. 304 AP <u>41</u> (1985).Tslvidis, Y., "Principles of Operation and Analysis of Switched-Capacitor Circuits," Proceedings of the IEEE, ΑQ <u>41</u> IEEE, Vol. 71, No. 8, pp. 926-940 (August 1983). Tsurumi, H. and Maeda, T., "Design Study on a Direct Conversion Receiver Front-End for 280 MHZ, 900 MHZ, and 2.6 Ghz Band Radio Communication Systems," 41st IEEE Vehicular Technology Conference, IEEE Vehicular Technology Society, pp. 457–462 (May 19-22, 1991). AR <u>41</u>

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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

APPLICANT Sorrells et al.

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Λ	AA42	5,770,985	06/1	998	Ush	roku et al.	33	33	193	
V	AB42	5,778,022	07/1	998	Wal	ley	37	75	206	
	AC42	5,812,546	09/1	998	Zho	u et al.	37	70	342	
	AD42	5,818,869	10/1	998	Miya	et al.	37	75	206	
	AE42	5,844,449	12/1	998	Abe	no et al.	33	32	105	
	AF42	5,872,446	02/1		Crar	nford, Jr. et al.	32	23	315	
	AG42	5,909,447	06/1	999	Cox	et al.	37	70	508	<u> </u>
	AH42	5,933,467	08/1		Sehi	er et al.	37	75	350	
	A142	5,952,895	09/1	999	McC	une, Jr. et al.	33	32	128	<u>.i</u>
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\sim	AN	Valdmanis, Electronic D	J.A. <i>et a</i> Jevices,	al., "Picoseco " IEDM Tech	ond ar	nd Subpicosend Optoele Digest, IEEE, pp. 597-60	ectronics for 00 (Decemb	Measur er 5-7,	rements of Fu 1983).	ture High Speed
	AO	van de Kam Letters, IEE	p, M.M. , Vol. 34	J.L., "Asymn 4, No. 11, pp	netric . 1145	signal level distribution (-1146 (May 28, 1998).	due to tropo	spheric	scintillation,"	Electronics
	АР	Vasseur, H. Electronics	and Va Letters,	inhoenacker, IEE, Vol. 34	D., "(, No. 4	Characterization of tropo 1, pp. 318-319 (February	spheric turt / 19, 1998).	oulent la	yers from rad	iosonde data,"
	AQ	42 Environmen	ts," <i>IEE</i>	ge Probability E Transactio rember 1997	ns on	ysis for Short-Range Co Vehicular Technology, I	mmunicatio	n Syste	ms at 60 Ghz hnology Socio	in ATT Urban aty, Vol. 46, No. 4
	AR	<u>42</u> Sigma-Delta	Moduli	., Single-IF Dator, Thesis f (April 1995).	or De	Receiver Architecture us gree of Master's of Engi	sing a Quad neering, Ca	rature S rleton U	Sub-Sampling niversity, UM	Band-Pass Dissertation
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FORM PTO-1449 INFORMATION DISCLOSURE

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W	AA43	5,960,033	09/1	999	Shiba	no et al.	37	5	207	
	AB43	6,041,073	03/2	000	David	ovici et al.	37	5	148	
	AC43	6,054,889	04/2	000	Kobay	ashi	32	7	357	
	AD43	6,084,922	07/2	000	Zhou	et al.	37	5	316	
	AE43	6,125,271	09/2	000	Rowla	nd et al.	45	5	313	
	AF43	6,147,340	11/2	000	Levy		250	0	214 R	
	AG43	6,147,763	11/2	000	Steink	chner	350	6	484	
	AH43	6,150,890	11/2	000	Damg	aard <i>et al.</i>	33	1	14	
	A143	5,126,682	06/1	992	Weinb	erg <i>et al</i> .	329	9	304	
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·	AJ43									Ye
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1	AN	43 Interna 17, 199	tional Confei 17).	rence on Ant	tennas a	tive MM-Wave Satelli and Propagation, Elec	tronics Divisi	on of th	e IEE, pp. 2.	98-2.101 (April 14
	AO	43 Procee	dings No. 34	ystem to Me 6: Characte ber 4-7, 198	ristics o	OS Atmospheric Tran fthe Lower Atmosphe	smittance at are Influencing	19 Ghz g Radio	" AGARD C Wave Prop	onference egation, AGARD,
	АР	Vilar, E	. and Smith, ransactions	H., "A Theo on Antennas	retical as and Pro	nd Experimental Stud opagation, IEEE, Vol.	ly of Angular AP-34, No. 1	Scintilla I, pp. 2-	itions in Eart 10 (January	h Space Paths," 1986).
	AQ	Vilar, E Antenn	. et al., "A W as and Propa	ide Band Tragation, Elec	anshoriz ctronics	on Experiment at 11. Division of the IEE, p	6 Ghz," <i>Eigh</i> l p. 441-445 (N	th Intern Narch 3	national Com 0- April 2, 19	ference on 93).
	AR	Vilar, E 8, No. 2	. and Matthe 20, pp. 509-5	ws, P.A., "A 11 (October	mplitude r 5, 1972	e Dependence of Freq .).	juency in Osc	cillators,	" Electronics	s Letters, IEE, Vo
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INFORMATION DISCLOSURE STATEMENT
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ATTY. DOCKET NO. 1744.0140005

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	AA44	5,841,811	11/1	1998	Song			375	235			
Mr	AB44	4,051,475	09/1	977	Cam	pbell		343	180			
	AC44	5,953,642	09/1	999	Feldt	keller et al.		455	195.1			
	AD44	4,653,117	03/1	987	Heck			455	209			
	AE44	5,859,878	01/1	999	Phillips et al.			375	316			
	AF44	5,894,496	04/1	999	Jone	8		455	126			
	AG44	5,915,278	06/1	999	Malli	ck		73	658			
	AH44	6,028,887	02/2	2000	Harrison et al. 375			375	206			
d	Al44	6,081,691	06/2	000	Renard et al. 455 12.1							
	FOREIGN PATENT DOCUMENTS											
EXAMINER INITIAL		DOCUME	NT NUMBER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION		
	AJ44 AK44									Yes No		
				<u> </u>						Yes No		
	AL44									Yes No		
<u> </u>	AM44	ļ		<u> </u>						Yes No		
		· · · · · · · · · · · · · · · · · · ·	OTHER (In	cluding Auti	hor, Ti	tle, Date, Pertinent P	ages, etc.)				
	AN	44 Vilar turbu	, E. <i>et al.</i> , "An lence," <i>Proce</i> e	experimental edings of the	mm-w 25° E	rave receiver system fouropean Microwave Co	or measuri onference,	ing phase Nexus Ho	noise due to ouse, pp. 114	atmospheric 119 (1995).		
Γ ,	AO	<u>44</u> Cont	E. and Burgu ext of Fade Dy , pp. 1306-13	namics," <i>IEE</i>	:E Irai	nd Modeling of Time Insactions on Communi	ntervals Be ications, IE	etween Ra EEE Comm	in Rate Exce nunications S	edances in the ociety, Vol. 39,		
	АР	Vilar, 44 Conf 1985	erence on And	gle of Arrival I ennas and Pr	Fluctua opaga	ntions in High and Low tion (ICAP 85), Electro	Elevation onics Divis	Earth Spa	ce Paths," For	ourth International 3 (April 16-19,		
	AQ	Vilar,	E., "Antennas eaching Anteni	and Propaga nas and Prop	ation: <i>l</i> pagation	A Telecommunications n to Undergraduates, I	Systems : IEE, pp. 7/	Subject," <i>E</i> 1-7/6 (Mar	Electronics Di ch 8, 1988).	vision Colloquium		
	Vilar, E. et al., "CERS*. Millimetre-Wave Beacon Package and Related Payload Doppler Correction Strategies," Electronics Division Colloquium on CERS- Communications Engineering Research Satellite, IEE, pp. 10/1-10/10 (April 10, 1984).											
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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

APPLICANT Sorrells et al.

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M	AA45	6,1	21,819	09/2	000	Tray	or	327	7	359	
1	AB45	6,14	44,236	11/2	000	Vice	et al.	327	,	113	
	AC45	6,14	14,846	11/2	000	Dure	c	455	5	323	
	AD45	6,1	75,728 B1	01/2	001	Mitar	ma	455		323	03/03/1998
	AE45	5,70	05,949	01/1	998	Alely	Alelyunas et al. 329			304	
	AF45	5,88	33,548	03/1	999	Assa	rd et al.	329)	306	
	AG45	4,40	34,143	11/1	984	Fren	ch et al.	329)	50	
	AH45	5,84	11,324	324 11/19		Willia	ams	331	1	17	
<u></u>	A145	4,85	55,894	08/19	989	Asah	i et al.	363	3	157	
					FOREIGN	PATI	ENT DOCUMENTS				
EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
	AJ45										Yes No
	AK45										Yes No
	AL45										Yes No
	AM45						,				Yes
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July 1	AN	<u>45</u>	Vilar, E. and I Electronics Le	Mouls! etters,	ey, T.J., "Cor IEE, Vol. 21,	nmen No. 1	t and Reply: Probability Do 4, pp. 620-622 (July 4, 19	ensity Fun 185).	ction of	Amplitude S	cintillations,"
	AO	<u>45</u>	Vilar, E. et al. Letters, IEE, \	, "Con Vol. 28	nparison of R B, No. 20, pp.	ainfall 1922	Rate Duration Distribution 1924 (September 24, 199	ns for ILE- 12).	IFE and	Barcelona,"	Electronics
	АР	<u>45</u>	Vilar, E., "Deg No. 9, pp. 732	olariz 2-733 (ation and Fie (April 25, 199	ld Tra 1).	nsmittances in Indoor Cor	nmunicatio	ons," <i>Ele</i>	ectronics Let	ters, IEE, Vol. 27,
	AQ	<u>45</u>	Vilar, E. and L Paths," <i>Sixth</i> 150–154 (Apri	interna	ational Confe	tion D	ependence of Amplitude S on Antennas and Propaga	Scintillation ation (ICA)	ns on Lo 2 89) Pa	ow Elevation ant 2: Propaga	Earth Space ation, IEE, pp.
	AR	<u>45</u>	Vilar, E. et al., European Mic 1988).	"Expe	erimental Sys e Conference	stem a	nd Measurements of Tran rowave Exhibitions and Pu	shorizon S Iblishers L	Signal Le td., pp. 4	evels at 11 G 429-435 (Se	Shz," <i>18th</i> ptember 12 - 15,

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. :.OUMANHOUMA'SKGF_DC1;37881;1

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Y	Λ	AA46	5,31	9,799	06/1	994	Mori	а	4:	55	78	
- 1		AB46	5,80	1,654	09/1	998	Tray	or	3	11	144	
		AC46	5,36	9,404	11/1	994	Galto	on	3	11	143	
		AD46	3,71	6,730	02/1	973	Cem	y, Jr.	3()7	295	
		AE46	4,08	0,573	03/1	978	Howell			25	439	
		AF46	4,33	4,324	06/1	982	Hoover			55	333	
		AG46	4,36	9,522	01/1	983	Cerny, Jr. et al.		45	55	333	
		AH46	5,46	5,418	11/1	995	Zhou et al.		4	55	332	
	ン	Al46	5,51	3,389	04/1	996	Reeser et al.		4	55	311	
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		AM46				}		,				Ye
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g	<u>\</u>	AN	<u>46</u>	Vilar, E. and the 4 th Europe 1974).	Matthe ean M	ews, P.A., "in icrowave Col	nporta n <i>fer</i> e <i>n</i>	nce of Amplitude Scintil ce, Microwave Exhibitio	lations in M ns and Pub	illimetric lishers,	c Radio Links, pp. 202-206 (" <i>Proceedings of</i> September 10-1
		AO	<u>46</u>	Parameters in	n an E	arth-Space F	ath."	nt and Modeling of Scin EEE Transactions on A 1, pp. 340-346 (April 196	ntennas an	nsity to d <i>Propa</i>	Estimate Turt gation, IEEE	oulence Antennas and
		АР	<u>46</u>	Vilar, E. and I Electronics Le	Matthe	ews, P.A., "M IEE, Vol. 7,	leasure No. 18	ement of Phase Fluctua , pp. 566-568 (Septemb	tions on Mil per 9, 1971)	limetric	Radiowave P	ropagation,"
		AQ	<u>46</u>	Vilar, E. and \ Millimetre Bar 5/1-5/8 (Janua	1d," <i>El</i>	ectronics Div	w and vision	Wide Band Estimates o Colloquium on Radiocor	f Field Stre mmunication	ngth for	Indoor Comm Range 30-60	nunications in the OGhz, IEE, pp.
I		AR _	<u>46</u>	Vilar, E. and F Limitations," E 23, 1986).	aulkn Electro	er, N.D., "Ph nics Division	ase N	oise and Frequency Sta quium on Low Noise Os	bility Meas scillators an	urement d Synth	ts. Numerical esizer, IEE, 5	Techniques and pages (January
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7)	AA47	5,959,850	09/1	999	Lim		363	17	
7	AB47	5,157,687	10/1	992	Tym	es	375	1	
1	AC47	5,945,660	08/1	999		nsuji <i>et al.</i>	235	462.46	1
	AD47	6,091,939	07/2	000	Bani		455	102	
	AE47	6,091,941	07/2	000	Mori	yama et al.	455	126	
	AF47	6,098,886	08/2	000		et al.	235	472.01	-
	AG47	6,215,475 B1	04/2	001	Mey	erson et al.	345	173	06/07/1995
	AH47	6,049,706	04/2	000		et al.	455	313	
	Al47	6,061,551	05/2			ells et al.	455	118	
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EXAMINER INITIAL		DOCUMENT NUM	1BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ47								Yes No
	AK47								Yes No
	AL47								Yes No
	AM47								Yes No
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A	AN	#EE, Vol. 33,	No. 22	2, pp. 1901-1	902 (C	hase noise identified usi october 23, 1997).			
	AO	4/ (Barcelona)	and Tro	opical (Belem	ı) Rea	on: Dependence Upon R lons," <i>Tenth International</i> 30-2.233 (April 14-17, 19	l Conference on Ar	bution in Ten ntennas and	nperate Propagation,
	AP	4/ AGARD Con	terenci	e Proceedina	ıs No.	Modeling and Measurem 332: <i>Propagation Aspect</i> ctober 18-22, 1982).	ent - A Tool for Re s of Frequency Sh	mote-Sensin aring, Interfe	g Slant Paths," rence And System
	AQ	Vilar, E., "So 47 on Satellite C 1975).	me Lim <i>Commu</i>	nitations on C nication Syst	igital i	Transmission Through To echnology, Electronics D	urbulent Atmosphe livision of the IEE,	re," <i>Internatii</i> pp. 169-187	onal Conference (April 7-10,
	AR.	Vilar, E. and International 1978).	Matthe Confer	ws, P.A., "Si ence on Ante	ummai ennas	y of Scintillation Observa and Propagation Part 2:	ations in a 36 Ghz i	Link Across I pp. 36-40 (N	.ondon," ovember 28-30,
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	AA48	6,06	1,555	05/20	000	Bultr	nan <i>et al.</i>	455	5	313	
. F	AB48	6,09	1,940	07/20	000	Som	ells <i>et al</i> .	455	5	118	
ſ	AC48	6,26	6,518 B1	07/20	001	Som	ells et al.	455	5	118	08/18/1999
	AD48	6,35	3,735 B1	03/20	002	Som	ells <i>et al</i> .	455	5	118	08/23/1999
	AE48	6,37	0,371 B1	04/20	002	Som	ells et al.	455	5	323	03/03/1999
	AF48	5,62	8,055	05/19	997	Steir)	455	;	89	
	AG48	5,67	8,220	10/19	997	Four	nier	455	5	302	
	AH48	5,92	6,065	07/19	999	Wak	ai et al.	329	•	304	
4	Al48	3,62	2,885	11/19	971	Obe	dorf et al.	325	5	40	
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EXAMINER INITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
	AJ48		•								Yes
	AK48										Yes
	AL48										Yes
	AM48								***********		Yes No
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	AN	<u>48</u>	Vilar, E. et al. Antennas and	, "Wid Propi	eband Chara agation, Elec	cteriz tronic	ation of Scattering Char s Division of the IEE, pp	nnels," <i>Tenth</i> . 2.353-2.35	<i>Interna</i> 8 (April	ational Confe 14-17, 1997	rence on).
	AO	<u>48</u>	Vollmer, A., "(and 56 (July 6	Compl i, 1998	ete GPS Rec 3).	eiver	Fits on Two Chips," <i>Ele</i>	ctronic Desig	gn, Pen	ton Publishir	ig, pp. 50, 52, 54
	AP	<u>48</u>	Voltage and 7 (November 19	îme R 186).	esolution in L	Digitiz	ing Oscilloscopes: Appli	cation Note	348, He	ewlett Packar	d, pp. 1-11
	AQ	<u>48</u>	Wan, K.W. et Oscillator," Pr Ltd., pp. 809-t	oceed	ings of the 19	9° Eu	o the Simultaneous Mea ropean Microwave Conf 9).	surement of erence, Micr	Phase owave	and Amplitu Exhibitions a	de Noises in nd Publishers
	AR	48	Wan, K.W. et Synthesis of C pp. 331-335 (1	scilla	lor Phase No	ances	and Autoregressive/Mo	oving Averag Annual Sym	e Algor posium	ithm for the N	Measurement and cy Control, IEEE.

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١		AA49	4,48	3,017	11/19	984	Ham	pel et al.	382	2	17		
40		AB49	6,42	1,534 B1	07/20	002	Coo	c et al.	455	5	313	08/18/1999	
		AC49	6,33	0,244 B1	12/20	001	Swa	Swartz et al.)	401	01/16/1998	
\Box		AD49	4,38	4,357	05/19	983	deB	ıda et al.	375	5	81		
		AE49	4,47	0,145	09/19	984	Williams			5	1		
		AF49	5,60	0,680	02/19	997	7 Mishima et al.			5	327		
		AG49	5,60	6,731	02/19	997	Pace	e et al.	455	5	260		
		AH49	5,87	0,670	02/19	999	Riple	ey et al.	455	5	304		
		A149	6,31	4,279 B1	11/20	001	Moh	indra	455	5	304	06/29/1998	
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EXAMIN INITIAL	IER		DOG	CUMENT NUMI	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION	
		AJ49										Yes No	
		AK49										Yes No	
		AL49										Yes No	
		AM49										Yes	
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J		AN	49	Wan, K.W. et	' <i>al.</i> , "V	Videband Tra	insho	rizon Channel Sounder at and the state of th	11 Ghz." <i>E</i>	Electroni nt, IEE, į	ics Division (pp. 3/1-3/5 (C	Colloquium on December 3,	
1		AO	<u>49</u>	Wang, H., "A Solid-State Ci	1-V M rcuits	lultigigahertz Society, Vol.	RF M 33, N	ixer Core in 0.5 - μm CMO lo. 12, pp. 2265-2267 (Dec	S," <i>IEEE</i> : ember 19	Journal 98).	of Solid-State	e Circuits, IEEE	
		АР	<u>49</u>	Watson, A.W.D. et al., "Digital Conversion and Signal Processing for High Performance Communications Receivers," Digital Processing of Signals in Communications, Institution of Electronic and Radio Engineers, pp. 367-373 (April 22nd -26th, 1985).									
		ΑQ	49	Weast, R.C. ε 485 (1964).	ot al. (E	Ed.), Handbo	ok of	Mathematical Tables, Seco	ond Edition	n, The C	Chemical Rub	ober Co., pp. 480-	
		AR	<u>49</u>	Wiley, R.G., ", IEEE, Vol. CO	Approx	ximate FM Do No. 7, pp. 10	emod 061-1	ulation Using Zero Crossin 065 (July 1981).	gs," <i>IEEE</i>	Transad	ctions on Cor	mmunications,	

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Y	AA50	10/086,250			Sorr	ells et al.		1	03/04/2002
	AB50				T				
	AC50								†
	AD50								
	AE50								 -
	AF50								
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	AJ50								Ye N
	AK50			<u></u>					Ye:
	AL50								Ye N
	AM50								Yes
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P	AN	Young I A	and Ho	dnes D.A. "	MOS	n," <i>RF Design</i> , Primedia,	on Sampled Date		
	AO	50 Young, I.A.	al of So	lid-State Circ	uits, II	EEE, Vol. SC-14, No. 6, p	op. 1020-1033 (De	oember 1979	lecursive Filters,"
	AP	50 Translation	of Spec	ification and	Claim	s of FR Patent No. 22451	130, 3 pages.		
	AQ	50 Fest, Jean-f 54, pp. 40-4	Pierre, " 2 (Dece	Le Convertis: ember 1995).	seur A	/N Revolutionne Le Reœ	epteur Radio," <i>Elec</i>	ctronique, JM	J (Publisher), No.
	AR	50 Translation	of DE P	atent No. 35	41 03	l A1, 22 pages.			
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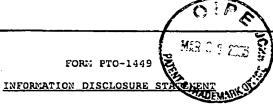
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	A151	<u> </u>			<u> </u>			<u> </u>	<u> </u>
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	AJ51								Yes No
 	AK51				`				Yes No
	AL51								Yes No
	AM51			<u> </u>					Yes No
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	AN -	51 Translatio	n of EP P	Patent No. 0 7	732 80	3 A1, 9 pages.			
\	AO	51 Fest, Jean 54, 3 page	-Pierre, ' es (Decer	The A/D Cor nber 1995).	nverte (Trans	r Revolutionizes the Radio Resistance of Doc. AQ50).	eceiver," <i>Electi</i>	ronique, JMJ	(Publisher), No.
	AP	51 Translation	of Germa	an Patent No.	DE 19	97 35 798 C1, 8 pages.			
	ΑQ	51 Miki, S. an (April 30, 1	d Nagah 1956).	ama, R., <i>Mo</i> o	dulatio	n System II, Common Edition	n 7, Kyoritsu Po	ublishing Co.,	Ltd., pp. 146-154
	AR	Miki, S. an (April 30, 1	d Nagah 956). (Pa	ama, R., <i>Moc</i> artial Transla	dulatio tion of	n System II, Common Edition Doc. AQ51).			Ltd., pp. 146-149
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FORM PTO-1449 INFORMATION DISCLOSURE STAT АТТУ. ВССКЕТ КО. 1744.0140005

APPLICATION NO. C9/77C,675

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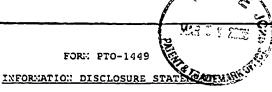
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